4 Channel DVR
User's Manual

imagine the possibilities

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To receive a more complete service, please
register your product at

www.samsungsecurity.com

SAMSUNG

overview

KEY FEATURES

Display
- Real Time Display of Each Channel
- Auto Sequence display of 4 channels
- PIP (Picture in Picture)
- Pause Mode
- 2X ZOOM
- Quick Switch between Live and Playback Screen
- PTZ Camera supported

Record
- Up to 3 Levels of Quality and Frame Rates
- Audio Recording
- Scheduled Recording
- Event Recording using External Sensors and Motion Detection
- Emergency Recording

Network
- Remote Monitoring using Web Viewer
- Supports DDNS Service

Play
- Search by the Data Size, and Date/Time
- Play Speed Adjustment and Forward/Backward Playback
- Event Search

Data Storage
- Simple, Easy Backup using USB Memory
- Network Backup

Others
- UNI-CODE supported
- Spot Monitor
- Video Loss Detection

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit.
Follow all the safety instructions listed below.
Keep these operating instructions handy for future reference.

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Standards Approvals

■ This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

overview

BEFORE START

This user's manual provides Information for using DVR such as brief introduction, part names, functions, connection to other equipment, menu setup, and the like.
You have to keep in mind the following notices:

• Samsung retains the copyright on this manual.

• This manual cannot be copied without Samsung's prior written approval.

• We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.

• If you want to open the case of your system for checking problems, please consult the expert from the shop where you bought the product.

• Before installing or replacing the HDD, or connecting a USB memory device to the DVR, check if it is compliant with the DVR. For the compatibility, contact the retailer where you purchased the product.

Warning

❖ Battery
Exchanging a wrong battery in your product may cause an explosion. Therefore you must use the same type of battery as the one being used in the product.
The following are the specifications of the battery you are using now.

• Normal voltage: 3V

• Normal capacity: 220mAh

• Continuous standard load: 0.2mA

• Operating temperature: -20°C ~ +85°C (-4°F ~ +185°F)

> ▪ Connect the power cord into a grounded outlet.
>
> ▪ The Mains plug is used as a disconnect device and shall stay readily operable at any time.
>
> ▪ Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

❖ System Shutdown
Turning off the power while the product is in operation, or taking not permitted actions may cause damage to the hard drive or the product. Also it can cause a dysfunction to the hard disk while using the product.
For safe power disconnection, select <**SHUTDOWN**> in the DVR menu and remove the power cable.
You may want to install a UPS system for safe operation in order to prevent damage caused by an unexpected power stoppage.
(Any questions concerning UPS, consult your UPS retailer.)

❖ Operating Temperature
The guaranteed operating temperature range of this product is 0°C ~ 40°C (32°F ~ 104°F).
This product may not work properly if you run right after a long period of storage at a temperature below the guaranteed one.
When using the device after a long period of storage at low temperature, place the product at room temperature for a while and run it.
Especially for the built-in HDD in the product, its guaranteed temperature range is 5°C ~ 55°C (41°F ~ 131°F). Likewise, the hard drive may not work at a temperature below the guaranteed one.
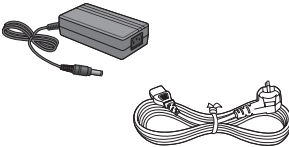
What's Included

Unpack the product package and put down the product on a flat floor or in an installation place.
Check if all components of the package are included.

SHR-3040		
DVR	Remote Control/Battery (AAAX2)	Mouse
Installation CD	User's Manual	AC Adaptor/Power Cable

overview

CONTENTS

● OVERVIEW

overview

FRONT PANEL

Item			Description
1	**USB Port**		Used to connect a USB memory device.
2	**LED**	**Power**	Displays the status of the system power.
		HDD	Blinks when a hard disk is accessed.
3	**Play**	◀◀	Plays video backward.
		● **REC**	Starts or ends recording.
		▶▶	Plays video forward.
		▶	Plays a recorded channel forward.
		II	Stops playing a video.
		◀	Plays a video backward.
4	**MODE**		Switches to a split mode.
5	**+/-**		Allows you to change the menu settings or control Zoom In/Out in PTZ mode.
6	**MENU**		Accesses the menu screen.
	RETURN		Moves one level up from the menu screen. This will operate as Stop button during playback.
7	**4/PTZ**		Moves to channel 4. Press and hold this button to enter PTZ mode.
	3/PIP		Moves to channel 3. Press and hold this button to enter PIP mode.
	2/SEQ		Moves to channel 2. Press and hold this button to enter SEQ mode.
	1/ZOOM		Moves to channel 1. Press and hold this button to enlarge the image; press it again to return to the previous size.
8	**Direction Buttons (▲▼◀▶)**		Use the direction buttons to navigate through the menu items.
	OK(OK)		Selects and runs a menu item.

REAR PANEL
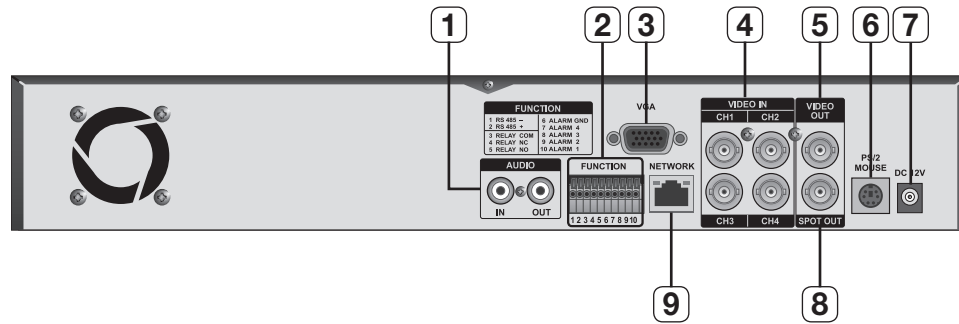
Item		Description
1	**AUDIO IN**	Audio signal input port. (RCA jack)
	AUDIO OUT	Audio signal output port. (RCA jack)
2	**RS-485**	Connector for an RS-485-based external device. (Pan/Tilt/Zoom)
	ALARM Output	Alarm output port.
	ALARM Input	Alarm input terminal.
3	**VGA**	Video output port to a VGA monitor.
4	**VIDEO IN (CH 1~4)**	BNC port for camera video input. (up to 4 cameras supported)
5	**VIDEO OUT**	BNC port for AV monitor output.
6	**PS/2 MOUSE**	PS/2 type mouse connection port.
7	**DC Input**	Power connection port for a 12V/4A adaptor.
8	**SPOT OUT**	Output (COMPOSITE) port for a NTSC- or PAL-based spot monitor.
9	**NETWORK**	RJ-45 port for network connection.

● OVERVIEW

overview

REMOTE CONTROL AT A GLANCE

SEARCH
The Search menu appears.

PTZ
The PTZ control menu appears.

Menu
Opens the main menu, or moves to the previous stage.

Number
Use this pad to enter a number or display a single screen.

FUNC
The Launcher menu appears.

REC
Starts/stops recording.

MODE
Switches to a split mode.

AUDIO
Turns on or off the sound.

Direction/OK
Used to move the cursor up/down or left/right./Used to select and run a menu item.

CH +/-
Moves the channel up or down.

+/-
Used to change the menu settings or control Zoom In/Out.

Play
Pause Backward, Backward Play, Play, Pause Forward

Play
Fast Backward, Pause, Stop, Fast Forward

ZOOM
Enlarges the screen (2x) digitally.

SEQ
Switches to auto sequence mode.

FRZ
Freezes the screen temporarily.

PIP
Displays the PIP screen.

02489A_SHR-3040_ENG.indb   10   2009-11-10   오후 2:12:53

installation

Please be noticed with the followings before you use the product.

• Do not use the product outdoor.

• Do not spill water or liquid in the connection part of the product.

• Do not impose the system to excessive shock or force.

• Do not pull out the power plug forcefully.

• Do not disassemble the product on your own.

• Do not exceed the rated input/output range.

• Use a certified power cord only.

• For the product with an input ground, use a grounded power plug.

CHECKING THE INSTALLATION ENVIRONMENT

• Samsung Digital video recorder ("DVR" hereinafter) is a state-of-art security device, and contains mass storage hard disk(s) and critical circuits inside.

• When the temperature rises inside the product, the product may breakdown and the product life be shortened. please pay attention to the following recommendations before installation.
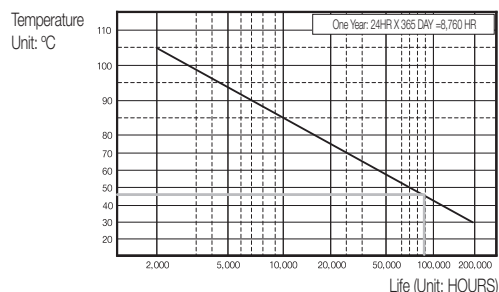
[Figure 1]

The followings are the recommendations when Samsung DVR is installed on a rack.

1. Please ensure that the rack inside is not sealed.

2. Please ensure the air is circulated through the inlet/outlet as shown in the picture.

3. If the DVR or other devices on a rack is to be stacked as in the picture, provide a suitable space or install a ventilating opening for air circulation.

4. For natural air convection, place the inlet at the bottom of the rack and the outlet on top.

5. It is strongly recommended that a fan motor is installed at the inlet and the outlet for air circulation. (Please fit a filter at the inlet to screen dust or foreign substances.)

6. Please maintain the temperature inside the rack or surrounding areas between 0°C ~ 40°C (32°F ~ 104°F) as shown in the fgure 1.

> ⚠ ▪ The rack installation is available only in shelf type.

[Figure 2]

English _**11**
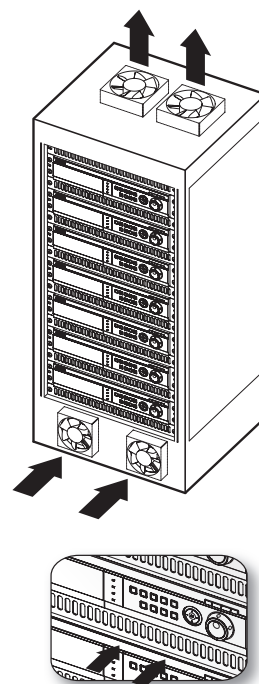
installation

INSTALLING HDD

You can install a separate HDD if your recorder has no built-in HDD.
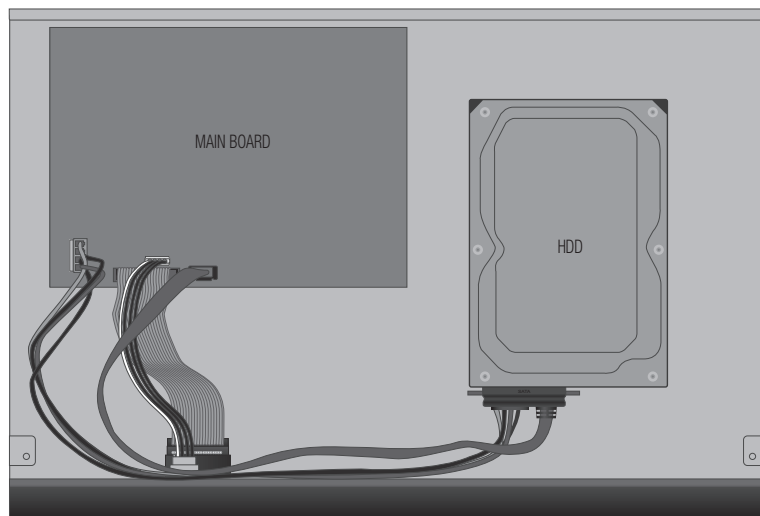
1. Loosen the screws in the left and right sides and remove the cover.
2. Use the SATA data cable to connect the main board with the HDD, and connect the HDD power cable.
3. Attach the HDD cushion to the internal bottom of the DVR, place the HDD over it, and use the provided screws to fix the HDD.

   ▣ If the HDD is not installed properly, it may not work at all. So it is necessary to contact the retailer for the replacement process.
   - The screw should be fixed from outside the case, and do not put excessive force on it.

   ▣ Data Loss Precautions (HDD Maintenance)

   Take good care not to damage the HDD.

   If you replace the HDD, make sure to check if it's compliant with the DVR.

   As the HDD is sensitive to an external impact that may cause malfunction, please take caution not to impact on it.

   If the HDD is damaged from your carelessness or an external impact, Samsung shall not be responsible for any damage to it.

   ▣ If the HDD and its data can be damaged in the following cases:

   To minimize a risk of damage to the HDD, make a regular backup of your data in it.

   Data can be damaged if an external impact is put on the DVR while removing or installing the DVR.

   If the DVR is stopped from a power failure or by your turning it off while the HDD is working, the HDD can be damaged.

   If you move or impact on the DVR while it is working, the HDD can be damaged.

CONNECTING TO A DIFFERENT DEVICE

Connecting to video, audio, and monitor
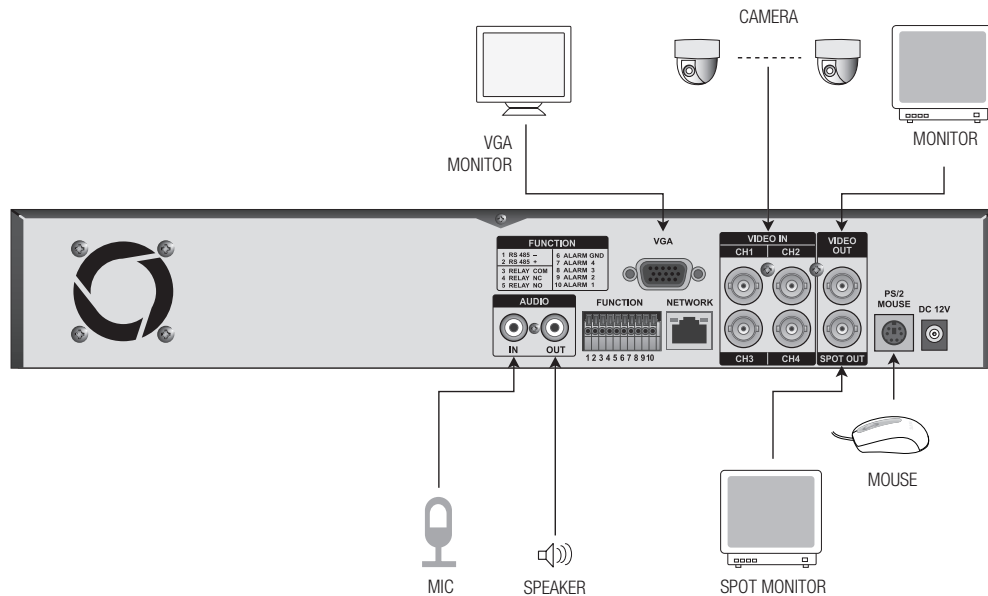
Connecting to RS-485, alarm

Connecting RS-485 device

Connection port used to control an external device such as the PTZ and speed dome camera.

Connect the external device to the RS-485 port (PIN 1:-, 2:+) in the rear [**FUNCTION**] panel.

> ■ Check if the RS-485 device is compliant with the DVR.
>
> ■ Please take care about the polarity (+/-) of RS-485 when installing it.
>
> ■ The polarity may differ, depending on the camera model.
>
> ■ For more information, refer to the user guide of the PTZ camera.

Connecting Alarm output

Connection port used to sound the alarm.

• PIN 3: RELAY COM / 4: RELAY NC / 5: RELAY NO

Connect one strand of the signal cable (two strands) to the [**COM**] port and connect the other strand to a desired alarm output port.

Connecting Alarm Input

Connection port used to receive the alarm signal.

• PIN 6: ALARM GND, 7: ALARM 4, 8: ALARM 3, 9: ALARM 2, 10: ALARM 1

Connect one strand of the sensor signal cable (two strands) to the [**GND**] port and connect the other strand to a desired alarm input port.

FUNCTION

1 RS 485 −	6 ALARM GND
2 RS 485 +	7 ALARM 4
3 RELAY COM	8 ALARM 3
4 RELAY NC	9 ALARM 2
5 RELAY NO	10 ALARM 1

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installation

NETWORK CONNECTION

You can use the Ethernet connector to connect to the network.
Connecting to the network consisting of multiple computers enables you to perform various functions including remote monitoring, remote search, and remote control.
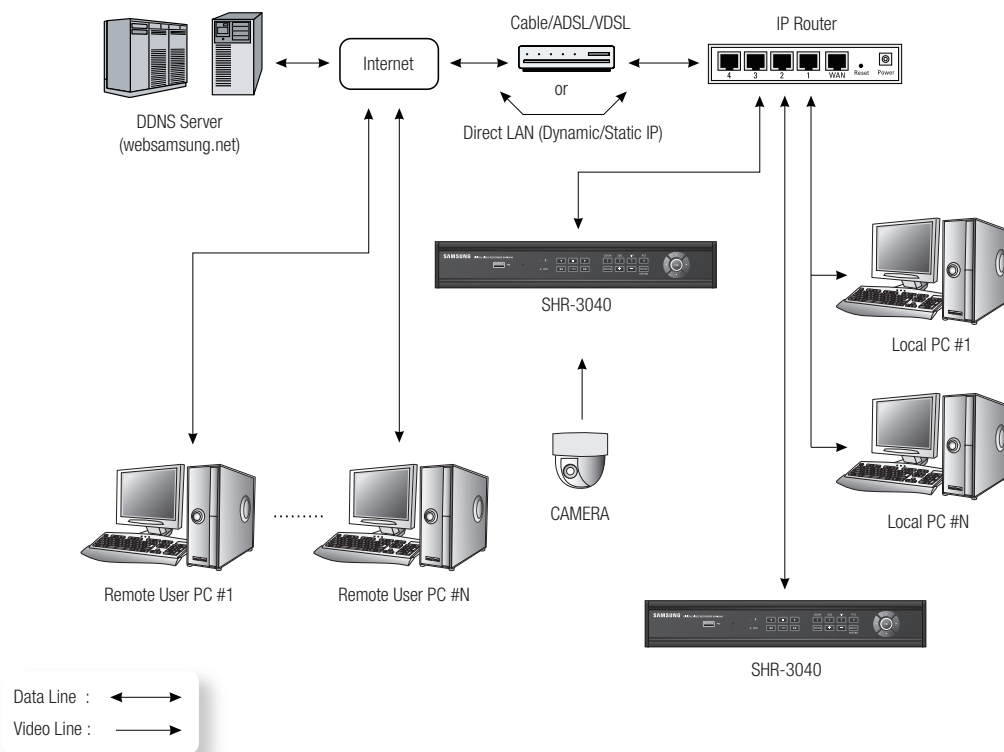
USB CONNECTION

The DVR has one USB port on the front panel.

You can connect the USB memory to the USB port for data backup or firmware upgrade.

Format the USB device in the FAT32 file system, on your PC if not formatted on the DVR.

live

LIVE

Getting Started

1. Connect the power cable of the DVR to the wall outlet. When it turns on, the system gets started automatically.
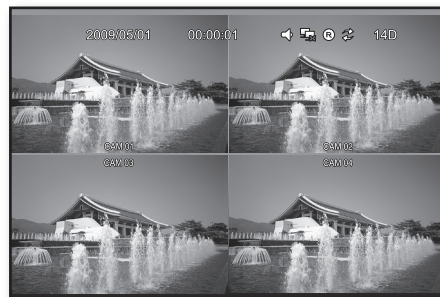
Login

To access a DVR or restricted menu, you should have logged in to the DVR.

1. In Live Screen, right-click any area of the screen. The Control icon appears in the bottom.

2. Click the menu icon [⚙].
  - ■ You can also see the login dialog by pressing the [**MENU**] button on the remote control.

3. Use the cursor to enter the password, or press a combination of numbers on the remote control.

> ■ Default ID: ADMIN
> ■ Default Password: 4321
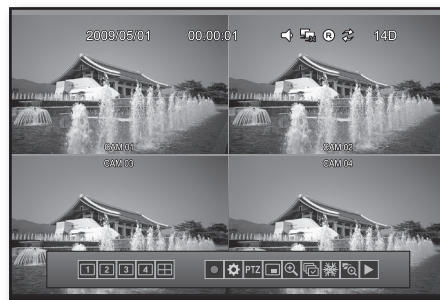
4. Select <**ENTER**>. You will access the main menu.
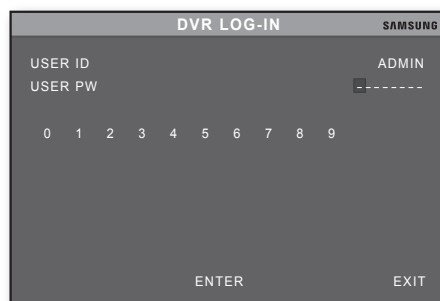
live

Live Screen Configuration

You can check the status or operation of the DVR with the icons on the live screen.
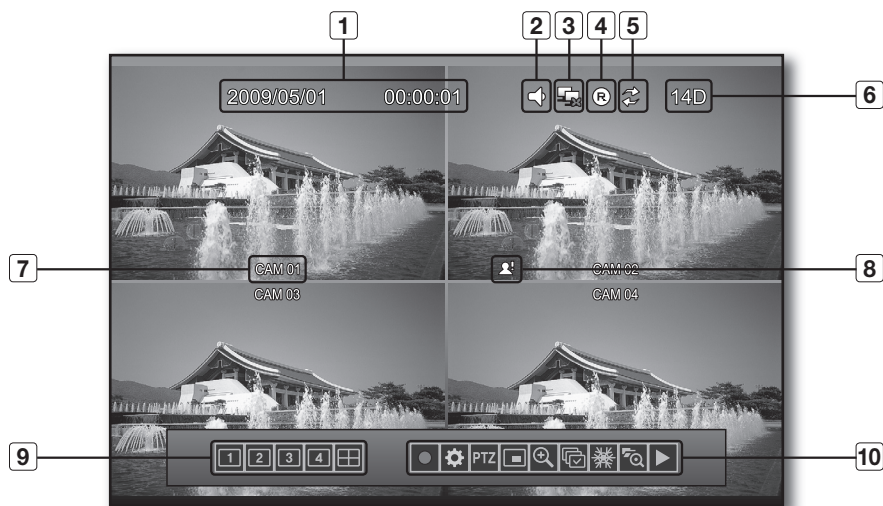
Item		Description
1	**Current Date, Time**	Displays the current time and date.
2	**Live Screen Status**	Displays the audio output status.
		Displays the status of PTZ, PIP, ZOOM, SEQ, and FRZ, respectively.
3	**Network Connection Status**	Displays the network connection status in network connection or disconnection.
4	**Record Status**	Displays the recording status.
5	**Overwrite**	Displays the overwrite status of the HDD.
6	**HDD** — **14D**	Displays the number of days to record. In the figure above, you will have 14 more days to store recording data.
	AUTO	Displays if you set to use auto deletion.
	FULL	Displays if you choose not to use overwriting and the HDD is full.
	OW	Displays if you set to use overwriting.
7	**Camera Name**	Displays the name of the current camera.
8	**Event**	Displays if a motion is detected.
		Displays if an alarm sounds.
9	**Channel Selection**	You can switch to channel 1, 2, 3, 4 or a split mode.
10	**Launcher Menu**	You can access menus of Record, Setup, PTZ, PIP, ZOOM, SEQ, FRZ and Play.

View the Launcher Menu

You can use the Launcher menu appearing on the bottom of the live screen to access it.

1. In Live mode, right-click any area or press the [**FUNC**] button on the remote control.
The Launcher menu appears in the bottom.

2. Move the cursor over the bottom, and click a desired item in the Launcher menu to access it.
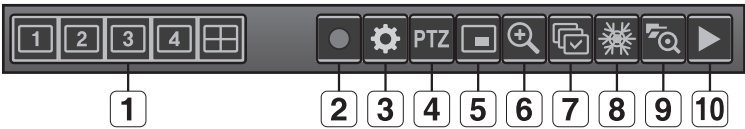
Menu		Description
1	**Mode Switch**	Switches to a single or split mode for each channel.
2	**Record**	Performs the manual recording.
3	**Main Menu**	Log into the main screen.
4	**PTZ**	The PTZ control icon that enables you to perform Pan/Tilt/Zoom will appear.
5	**PIP**	Switches to PIP mode. PIP is an acronym for "Picture In Picture", which enables you to display a sub screen on the Single Live screen.
6	**ZOOM**	Enlarges the screen of the selected channel twice.
7	**SEQ**	Switches to auto sequence mode. SEQ is short for "Sequence", which will transit the channel screen automatically at a specified interval.
8	**Freeze**	Stops the live screen temporarily.
9	**Search**	Moves to the Search menu.
10	**Play**	Plays the video recording.

live

MODE SWITCH

You can use the channel buttons on the remote control or the front panel to switch to a single or 4-split mode for each channel.

1. Press the channel button on the front panel, remote control or control icon, or click the channel icon in the Launcher menu.
The selected channel will be displayed in single mode.

2. Press the [**CH-**] or [**CH+**] button on the remote control to move to the previous or next channel.

3. Press the [**MODE**] button on the remote control or the front panel, or click the split screen icon < ▦ > in the Launcher menu to switch to 4-split mode.

> ▪ Ex) If you select CH 3 and select split mode again

CH1	CH2
CH3	CH4

4 Split Screen → Single Screen of CH 3 → 4 Split Screen
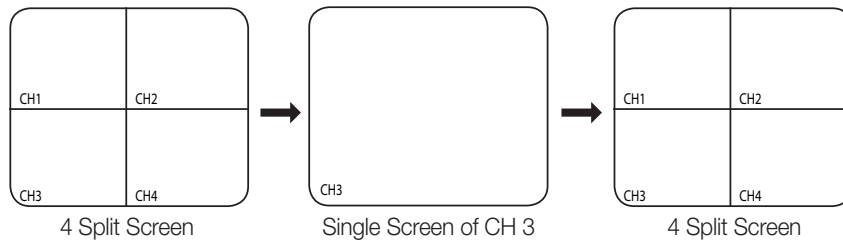
PIP DISPLAY

You can view a sub screen in the lower right side for the other channel in Single Live Screen.

1. Press the [**PIP**] button on the remote control or the front panel, or click < ▣ > in the Launcher menu.

2. Press the [**PIP**] button again, or click < ▣ >.
The PIP screen disappears.

> ▪ The sub screen automatically switches at the specified interval, which can be adjusted in <**PIP SCREEN**> from "**MAIN MENU > CONFIGURATION > INTERVAL SETUP**". (Page 33)
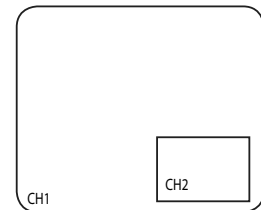
ZOOM

This is available in Live mode where the screen of the selected channel will be enlarged by 2x.

1. Press and hold the [**ZOOM**] button on the remote control or the front panel, or click < 🔍 > in the Launcher menu.
The selected channel will be enlarged by 2x, while CH 1 will be enlarged to fit the screen in 4-split mode.

> ▪ In an enlarged screen, move the cursor to scroll through the screen.

2. Press the [**ZOOM**] button again, or click < 🔍 >.
The zoom mode will be cancelled.

AUTO SEQUENCE

You can view the 4 Single Live channels in sequence.

1. In Live mode, press and hold the [**SEQ**] button on the remote control or the front panel, or click < 📹 > in the Launcher menu.

2. Press the [**SEQ**] button again, or click < 📹 >.
Auto Sequence will be cancelled.

> ▪ The switch interval can be adjusted in <**SEQUENCE SCREEN**> from "**MAIN MENU > CONFIGURATION > INTERVAL SETUP**". (Page 33)

CH4

CH1
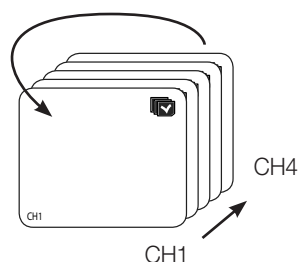
FREEZE

This is available in Live mode where the Live screen will be stopped temporarily.

1. Press the [**FRZ**] button on the remote control, or click < ❄ > in the Launcher menu.
The Live screen will be stopped temporarily.

> ▪ If you press the [**FRZ**] button and selected a desired channel in a split mode, the selected screen alone will be stopped temporarily or resumed.

2. Press the [**FRZ**] button again, or click < ❄ >.
Freeze will be cancelled.

live

RECORD

You can make recording manually in Live mode.

Other than in manual mode, recording will proceed as set in the Schedule menu.

1. Press the [**REC**] button on the remote control or the front panel, or click < ◎ > in the Launcher menu.
Recording will start while the button switches to Stop mode.

2. Press the [**REC**] button again, or click < ■ >.
Recording will be stopped.

> ✎ ▪ You can set detailed options in "**MAIN MENU > RECORD**".
>
> ▪ If the HDD is full in the condition where the Overwrite option in "**HDD MANAGEMENT**" is set to <**DISABLE**>, recording will not proceed further.
>
> ▪ Recording will be deactivated during data backup.
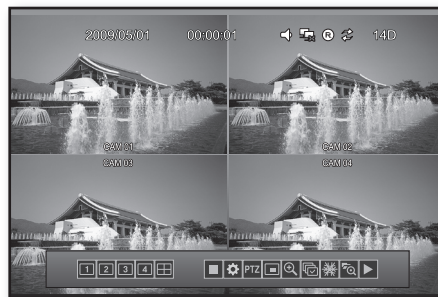
PTZ

You can adjust the angle of a PTZ-supported camera in the PTZ menu.

1. Press and hold the [**PTZ**] button on the remote control or the front panel, or click < PTZ > in the Launcher menu.
The PTZ direction pad will appear.

2. Use the 8-direction arrows to adjust the camera angle.

3. In the center < ⊕ > key, Click < ⊕ > to zoom in, and select the lower < ⊖ > key to zoom out.

4. Press the [**PTZ**] button again, or click < PTZ >.
The PTZ direction pad will disappear.

SEARCH

You can perform the search for recorded data by the time or by the search criteria such as an event.

1. Press the [**SEARCH**] button on the remote control, or click < 🔍 > in the Launcher menu.
The Search menu appears.

2. Use the direction buttons on the remote control or the front panel, or use the cursor to select one from menu items of Percent, Date/Time, and Event.

3. Specify search criteria for each item and click <**PLAY**> in the lower screen.
The selected video data will be played.

   ◾ To return to the previous menu, click <**ESC**>.

   ◾ You can also move the wheel of the mouse up or down to increase or decrease the setting value.

SEARCH	SAMSUNG
PERCENT SEARCH	
DATE/TIME SEARCH	
EVENT SEARCH	
	EXIT

Percent Search

You can select a start point in the percent bar showing the amount of recorded data in the HDD.

Use the cursor to select a desired point in the section bar, or use the [**+/-**] button on the remote control, or the left/right button of the mouse to specify the percent ("**%**").

   ◾ Right-click will decrease the number; Left-click will increase the number.

PERCENT SEARCH	SAMSUNG
START	2009/ 05/01 00:00:06
END	2009/ 05/01 00:00:20
TARGET	2009/ 05/01 00:00:06
PERCENT	92%
PLAY	ESC
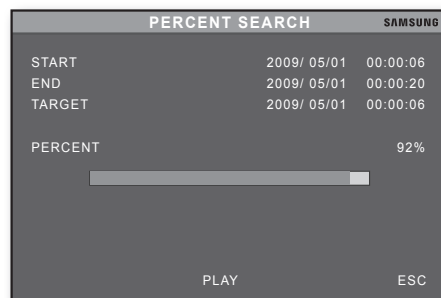
Date/Time Search

You can search for data by the date and time.

If you select <**DATE/TIME SEARCH**>, the start and end times will be listed.

The time point that you set in <**TARGET**> will be displayed in the list.

   ◾ If you specify a time point out of range, an error message of <**INPUT DATE TIME ERROR**> will be displayed.

DATE/TIME SEARCH	SAMSUNG
START	2009/ 05/01 00:00:06
END	2009/ 05/01 00:00:20
TARGET	2009/ 05/01 00:00:06
PLAY	ESC

● LIVE

live
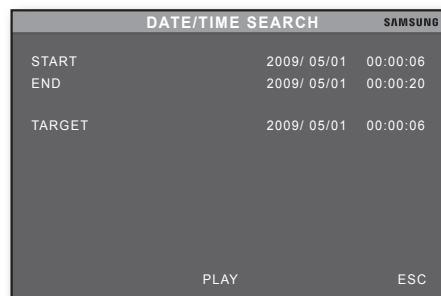
Event Search

You can check and search for contents of a list of events such as alarm, motion detection, and video loss.

Select <**EVENT SEARCH**> to display a list of events with information of the occurrence time and date.

If you select an event to play, the selected event will be played instantly.

EVENT SEARCH		SAMSUNG
DATE/TIME	CHANNEL	EVENT
2009/05/01 00:00:06	2	LOSS
2009/05/01 00:00:07	1	LOSS
2009/05/01 00:00:08	1	LOSS
2009/05/01 00:00:09	1	MOTION
2009/05/01 00:00:10	1	MOTION
/ / : :	-	--
/ / : :	-	--
/ / : :	-	--
/ / : :	-	--
/ / : :	-	--
PAGE 001/001		ESC

PLAY

In Live mode, press the [▶] button on the remote control or the front panel or click on the < ▶ > menu from the launcher menu to play forward video data in the HDD from the last run point.

> ▪ Each icon in the Launcher menu will work the same as in the play bar on the remote control. (Page 10)

EVENT MONITORING

This will display a specific event such as alarm and event on the screen of each channel.

The event will be displayed regardless of the schedule setting.

To set the event update

1. Specify a time in "**MAIN MENU > CONFIGURATION > INTERVAL SETUP > EVENT UPDATE**".
   Set the time between 10 and 990 seconds by the 10 seconds.
   - For more information, refer to "**INTERVAL SETUP**". (Page 33)

2. If an event specified in the recording schedule occurs, the event update will be made.
   - For more information, refer to "**SCHEDULE SETUP**". (Page 29)

```
        INTERVAL SETUP          SAMSUNG

SEQUENCE SCREEN                     01 SEC
PIP SCREEN                          01 SEC
EVENT UPDATE                       600 SEC




                                        OK
              DEFAULT                   ESC
```

● LIVE
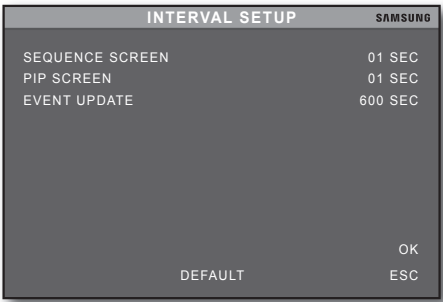
- A video loss event will be updated only while recording is in process.

- An alarm list will be updated only if the recording schedule has been set to Alarm.

- A motion event will be updated only if the recording schedule has been set to Motion.

- Alarm and motion events will be updated only if the recording schedule has been set to Alarm + Motion.

To update the event list

- Ex) If you set the event update interval to 10 seconds, the next event will be updated in at least 10 seconds.

Event Occurs	Event Ends	Event Occurs	Event Occurs

10 seconds

Updates the event list		Ignore list registration	Updates the event list

English _**23**

2009-11-10   오후 2:13:29
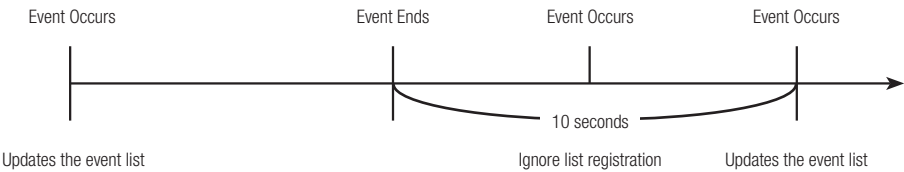
live

EVENT MONITORING ON THE SPOT MONITOR

Apart from the Live screen, you can use the spot monitor to monitor an event from a specific channel through the SPOT OUT port.

1. Specify an interval and use of the popup in "**EXTERNAL DEVICE > SPOT SETUP**".
According to your settings, the spot monitor will be activated when an event occurs.

> ■ For more information, refer to "**SPOT SETUP**". (Page 41)

SPOT SETUP	SAMSUNG
SWITCHING INTERVAL	03 SEC
ALARM POPUP	OFF
MOTION POPUP	OFF
EVENT POPUP DURATION	05 SEC
	OK
DEFAULT	ESC
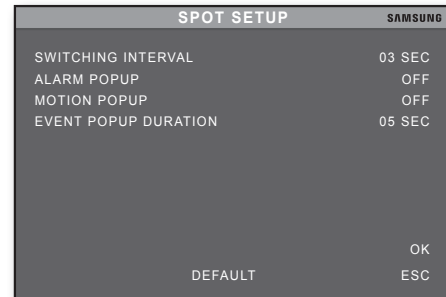
- • The spot monitor is defaulted to Auto Sequence according to the interval.
  If multiple events occur simultaneously, the events from the lower channel will be notified first with popup.

- • If the spot monitor switches from channel 1 (the first event) to channel 2 (the second one), a new event from channel 1 within the event popup duration will not display a new popup.

Spot Event Popup

Event Occurs   Event Occurs

Popup Duration

CH1   CH2
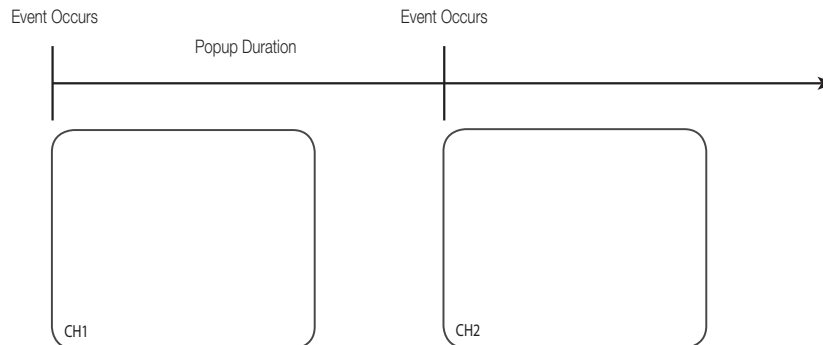
setup

USING THE MENU

You can configure the menu settings of screen display, record, configuration, external device, backup, language, firmware upgrade and system reset.

📝 ▪ You can use the remote control or mouse to select each one of the menu items above.
To fast access a desired menu, it is recommended to learn about using the buttons and remote control in advance.

Using the mouse

In the Launcher menu, click < ⚙ > and enter the password to log in; The "**MAIN MENU**" appears.

Button	Description
Wheel	Used to adjust the setting in the menu. (increase / decrease) Adjust the volume level (+, -) in Live/Play mode.
Right	Used to adjust the setting in the menu. (decrease)
Left	Used to adjust the setting in the menu. (increase) Use this to run a Launcher menu. (click a desired icon)

Using the buttons on the remote control or the front panel

In Live mode, press the [**MENU**] button to access the "**MAIN MENU**" through the login process.

Button Name		Description
Direction Buttons	▲▼◄►	Used to move through the menu items.
Confirm	OK	Used to confirm your input or setting, or change the setting. (Increase/Decrease)
+/-	+/-	Used to change the menu setting. (Increase/Decrease)
Menu	MENU	Used to access the main menu or move to the previous menu.

● SETUP

02489A_SHR-3040_ENG.indb   25   2009-11-10   오후 2:13:30

setup

DISPLAY SETUP

You can configure the settings of VGA, Screen Display and OSD.

VGA Setup

1. Press the [**MENU**] button on the remote control or the
front panel.
The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
The "**MAIN MENU**" screen appears.

3. Use the up/down (▲▼) button to select <**DISPLAY
SETUP**>, and press [**OK**].
The "**DISPLAY SETUP**" screen appears.

```
              MAIN MENU          SAMSUNG

 DISPLAY SETUP
 RECORD
 CONFIGURATION
 EXTERNAL DEVICE
 BACK-UP
 FIRMWARE UPGRADE
 FACTORY DEFAULT

 LANGUAGE                        ENGLISH

 SHUTDOWN
                                    EXIT
```

4. Use the up/down (▲▼) button to select <**DISPLAY
SETUP**>, and press [**OK**].
The "**VGA SETUP**" screen appears.

```
             DISPLAY SETUP       SAMSUNG

 VGA SETUP
 SCREEN DISPLAY
 OSD SETUP




                                     ESC
```

5. Set the video resolution.

   • RESOLUTION: Select one from 640X480, 800X600,
   1024X768, and 1280X1024.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to
the factory default.

7. To return to the previous menu, select <**ESC**>.

```
              VGA SETUP          SAMSUNG

 RESOLUTION                   800•600/60HZ





                                       OK
               DEFAULT                 ESC
```
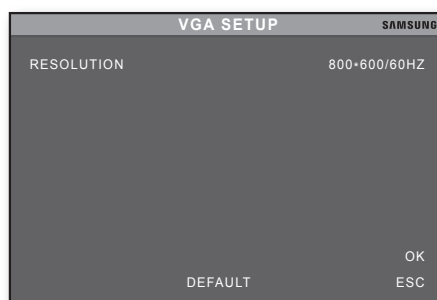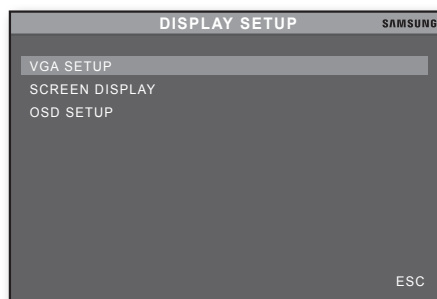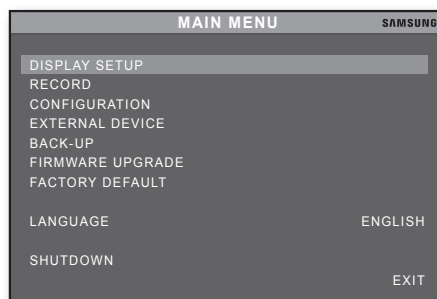
Screen Display Setup

See the previous section to repeat steps 1~3. (Page 26)

4. Use the up/down (▲▼) button to select <**SCREEN DISPLAY**>, and press [**OK**].
The "**SCREEN DISPLAY**" screen appears.

```
           DISPLAY SETUP        SAMSUNG

  VGA SETUP
  SCREEN DISPLAY
  OSD SETUP




                                  ESC
```
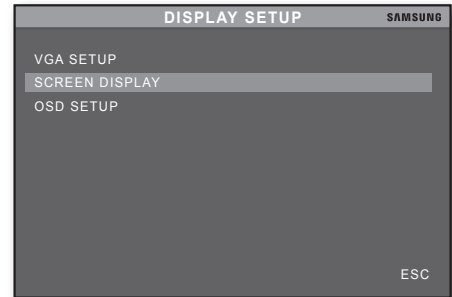
5. Use the up/down (▲▼) button to move to a desired item.

- • VERTICAL POSITION: Used to move the input video up or down. (-5~5)

- • HORIZONTAL POSITION: Used to move the input video to the left or right. (-31~31)

- • BORDER ENABLE: Specify the use of the border line.

- • BORDER COLOR: Specify the color of the border line.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

```
           SCREEN DISPLAY       SAMSUNG

  VERTICAL POSITION                  0
  HORIZONTAL POSITION                0
  BORDER ENABLE                     ON
  BORDER COLOR              LIGHT GRAY




                                    OK
             DEFAULT               ESC
```

OSD Setup

See the previous section to repeat steps 1~3. (Page 26)

4. Use the up/down (▲▼) button to select <**OSD SETUP**>, and press [**OK**].
The "**OSD SETUP**" screen appears.

```
           DISPLAY SETUP        SAMSUNG

  VGA SETUP
  SCREEN DISPLAY
  OSD SETUP




                                  ESC
```

● SETUP

English _**27**

setup

5. Use the up/down (▲▼) button to set the "**TOP OSD OFFSET**".
   The icon bar in the upper corner of the Live screen will be removed up or down.

6. When done, select <**OK**>.
   Your setting will be applied.
   If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

```
                  OSD SETUP            SAMSUNG

TOP OSD OFFSET                              0




                                          OK
                        DEFAULT           ESC
```
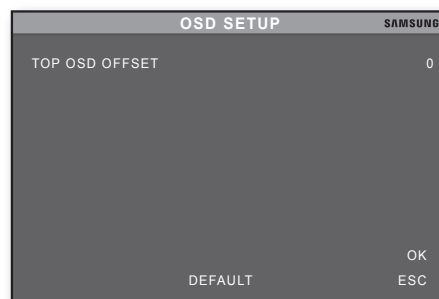
RECORD

You can configure the record and recording schedule settings.

Record Setup

You can set options of the record quality, frame rate and pre alarm record.

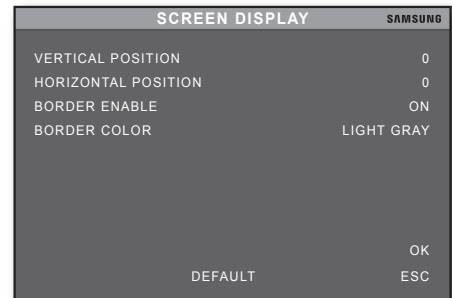1. Press the [**MENU**] button on the remote control or the front panel.
   The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
   The "**MAIN MENU**" screen appears.

3. Use the up/down (▲▼) button to select <**RECORD**>, and press [**OK**].
   The "**RECORD**" setting screen appears.

```
                  MAIN MENU            SAMSUNG

DISPLAY SETUP
RECORD
CONFIGURATION
EXTERNAL DEVICE
BACK-UP
FIRMWARE UPGRADE
FACTORY DEFAULT

LANGUAGE                            ENGLISH

SHUTDOWN
                                         EXIT
```

4. Use the up/down (▲▼) button to select <**RECORD SETUP**>, and press [**OK**].
   The "**RECORD SETUP**" screen appears.

```
                  RECORD               SAMSUNG

RECORD SETUP
SCHEDULE SETUP




                                          ESC
```
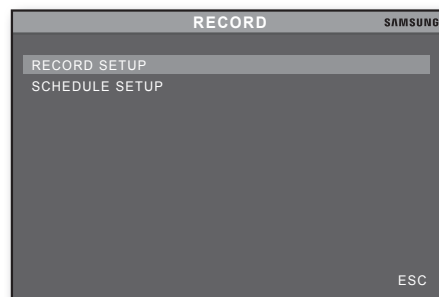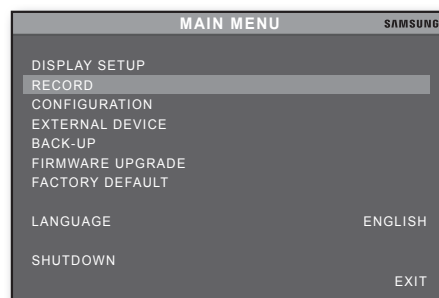
5. Use the up/down (▲▼) button to move to a desired item.
   • QUALITY: Select the quality from Highest, High and Normal.
     The remaining time will change according to the quality.
   • FRAME RATE: Set the frame rate per second.
     The higher the frame rate is, the more natural the video becomes but the remaining recordable time will be shortened.

```
               RECORD SETUP            SAMSUNG

QUALITY                                HIGH
FRAME RATE                            30 FPS

PRE ALARM RECORD                        OFF
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
HDD REMAINING                     236GB/320GB
TIME REMAINING                  D-14  H-11  M-25


                                          OK
                        DEFAULT           ESC
```
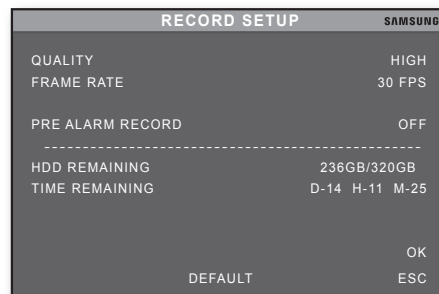
• PRE ALARM RECORD: In event recording, set the advance recording time before an actual event.

> ⚠ ▪ Pre alarm settings will be changed according to the frame rate.

• HDD REMAINING: Shows the remaining and total capacity of the current HDD.

• TIME REMAINING: Displays the expected recordable time in the "**DATE(D)/HOUR(H)/MIN(M)**" format based on the selected quality.

6. When done, select <**OK**>.
Your setting will be applied.
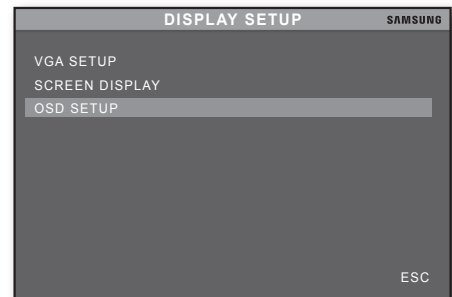If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

Schedule Setup

You can set the recording schedule.

See the previous section to repeat steps 1~3. (Page 28)

4. Use the up/down (▲▼) button to select <**SCHEDULE SETUP**>, and press [**OK**].
The "**SCHEDULE SETUP**" screen appears.

```
                    RECORD          SAMSUNG

          RECORD SETUP
          SCHEDULE SETUP




                                        ESC
```

5. Use the direction (▲▼◄ ►) buttons to move to a desired box, and press [**OK**].
Each time you press the button, the box setting will switch to "**CONTINUE > MOTION > ALARM > MOTION & ALARM > STOP RECORDING**" in sequence.

• ALL: Select this to set the entire week.

• DAY: Select this to set a specific day of the week.

• HOUR: Select this to set the time range.
You can set the time range by the two hours.

```
               SCHEDULE SETUP        SAMSUNG

   ALL   00 02 04 06 08 10 12 14 16 18 20 22
   SUN
   MON
   TUE
   WED
   THU
   FRI
   SAT

                                          OK
             DEFAULT                      ESC
```

> 📝 ▪ You can use the left and right buttons of the mouse to make a desired schedule.
> - Each time you press the left button of the mouse, the box item will switch to "**CONTINUE > MOTION > ALARM > MOTION & ALARM > STOP RECORDING**" in sequence.
> - Each time you press the right button of the mouse, the box item will switch to "**STOP RECORDING > MOTION&ALARM > ALARM > MOTION > CONTINUE**" in sequence.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

setup

CONFIGURATION

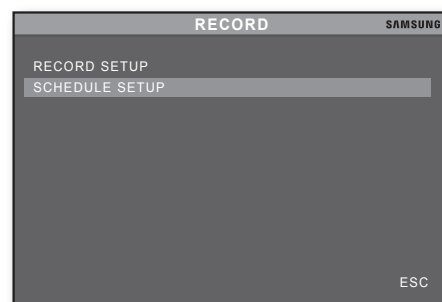You can configure the settings of HDD, Camera, Motion, Alarm, Interval, Date/Time, Password, and Buzzer.

HDD Management

You can check the HDD model and its capacity, and set the Overwrite option and reset the HDD.

1. Press the [**MENU**] button on the remote control or the front panel.
The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
The "**MAIN MENU**" screen appears.

3. Use the up/down (▲▼) button to select <**CONFIGURATION**>, and press [**OK**].
The "**CONFIGURATION**" screen appears.

```
               MAIN MENU          SAMSUNG

DISPLAY SETUP
RECORD
CONFIGURATION
EXTERNAL DEVICE
BACK-UP
FIRMWARE UPGRADE
FACTORY DEFAULT

LANGUAGE                          ENGLISH

SHUTDOWN
                                     EXIT
```

4. Use the up/down (▲▼) button to select <**HDD MANAGEMENT**>, and press [**OK**].
The "**HDD MANAGEMENT**" screen appears.

```
              CONFIGURATION       SAMSUNG

HDD MANAGEMENT
CAMERA SETUP
MOTION SETUP
ALARM SETUP
INTERVAL SETUP
DATE/TIME SETUP
PASSWORD SETUP
BUZZER SETUP



                                      ESC
```
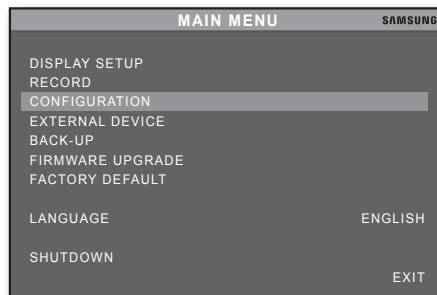
5. Check the current HDD for the model and specifications.

6. Use the up/down (▲▼) button to move to a desired item.

- OVERWRITE: When the HDD is full while this option is set to <**ENABLE**>, the DVR will proceed with recording by overwriting the existing data.
If set to <**DISABLE**>, the DVR will stop recording when the HDD is full.

- AUTO DELETION: If you have set an auto deletion period, the existing data before the specified time will be deleted.
If you select <**OFF**>, auto deletion will be disabled.
If you have set auto deletion period, the <**OVERWRITE**> option will be set to <**AUTOMATIC**> automatically.

```
            HDD MANAGEMENT        SAMSUNG

MODEL                    WDC WD2500AAJS-22B4AO
SERIAL                       WD-WCAT10703203
BLOCKS                          488397168 LBA
SIZE                                  320 GB
BANDWIDTH                                P104
------------------------------------------------
OVERWRITE                             ENABLE
AUTO DELETION                            OFF
<CAUTION>TOTALLY ERASE HDD DATA
                                         OK
             CLEAR                      ESC
```
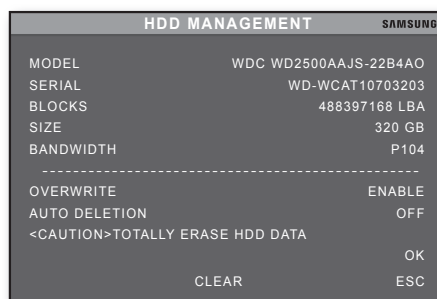
> ⚠ ▪ If you have set an auto deletion period, the HDD recording data before the specified time will be deleted.
> Ex) For D-03, data until 3 days ago will be deleted.

7. When done, select <**OK**>.
Your setting will be applied.
If you select <**CLEAR**>, the HDD will be cleared after the login process.

8. To return to the previous menu, select <**ESC**>.

Camera Setup

See the previous section to repeat steps 1~3. (Page 30)

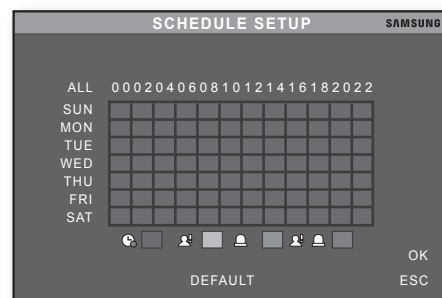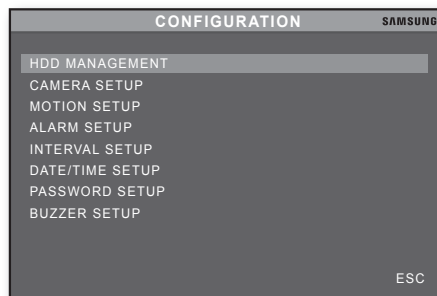**4.** Use the up/down (▲▼) button to select <**CAMERA SETUP**>, and press [**OK**].
The "**CAMERA SETUP**" screen appears.

```
          CONFIGURATION          SAMSUNG

HDD MANAGEMENT
CAMERA SETUP
MOTION SETUP
ALARM SETUP
INTERVAL SETUP
DATE/TIME SETUP
PASSWORD SETUP
BUZZER SETUP


                                      ESC
```

● SETUP
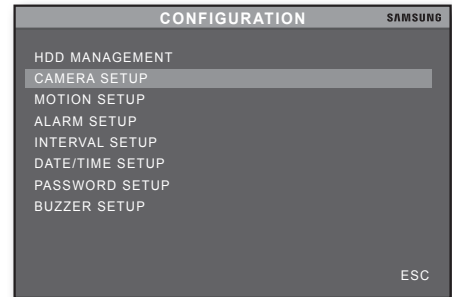
5. Use the up/down (▲▼) button to move to a desired item.

- CHANNEL: Select a channel to change the title.
- TITLE: Move the cursor to the input box and use the [**OK, +, -**] buttons to enter a name. (8 characters)
- BRIGHTNESS: Adjust the screen brightness.
- CONTRAST: Adjust the color contrast.
- SATURATION: Adjust the saturation.
- HUE: Adjust the color tone.
- HORIZONTAL POSITION: Adjust the horizontal position for each channel screen.
- LIVE DISPLAY: Turn on/off the Live screen.
  - ▪ If you select <**OFF**>, the Live screen will not be displayed but the recording proceeds normally.
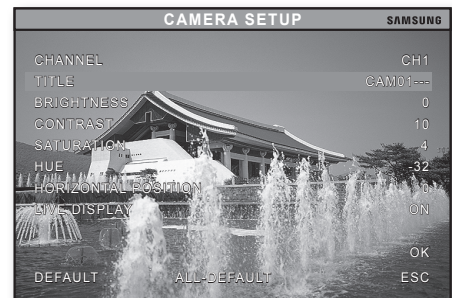
```
           CAMERA SETUP          SAMSUNG

CHANNEL                              CH1
TITLE                          CAM01---
BRIGHTNESS                            0
CONTRAST                             10
SATURATION                            4
HUE                                 -32
HORIZONTAL POSITION
LIVE DISPLAY                         ON

                                      OK
DEFAULT        ALL-DEFAULT          ESC
```

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the selected channel will be reset to the default, and if selecting <**ALL-DEFAULT**>, all the channels will be reset to the factory default.

7. To return to the previous menu, select <**ESC**>.

setup

Motion Setup

You can specify an area to detect a motion.
If you select an area to detect a motion, the DVR will detect any motion occurring in that area.

See the previous section to repeat steps 1~3. (Page 30)

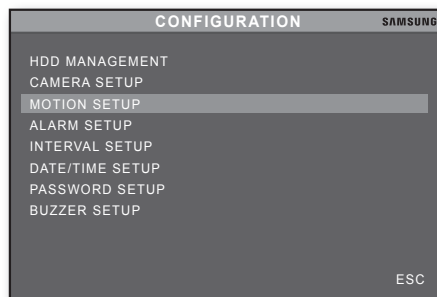**4.** Use the up/down (▲▼) button to select <**MOTION SETUP**>, and press [**OK**].
The "**MOTION SETUP**" screen appears.

```
         CONFIGURATION        SAMSUNG

   HDD MANAGEMENT
   CAMERA SETUP
   MOTION SETUP
   ALARM SETUP
   INTERVAL SETUP
   DATE/TIME SETUP
   PASSWORD SETUP
   BUZZER SETUP


                                    ESC
```

5. Use the up/down (▲▼) button to move to a desired item.

- CHANNEL: Select a channel to set the motion detection.
- SENSITIVITY: Adjust the sensitivity of the motion detection. If the level increases from 1 to 6 one by one, the sensitivity will be increased accordingly.
- DURATION: Set the recording duration from the moment a motion is detected. You can specify the duration between 2 and 99 seconds.
- SIZE: Specify the number of cells to be selected at once. Ex) If you select 3, a total of 9 cells (3X3) will be selected.
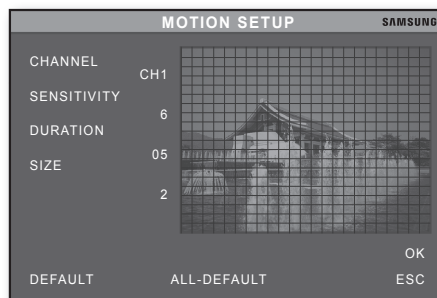
6. Use the four direction (▲▼◄ ►) buttons and press [**OK**] to set the motion area.
Motion detection is activated for the area that is selected in red.

- ▣ By default, all cells are set to disabled.

- ▣ If you use the cursor to set the motion area, select a cell and set it to 'ACTIVE/INACTIVE'.
Left-click a cell and drag it until a desired cell block is shaped.
When a desired block is selected, release the left button of the mouse.

```
         MOTION SETUP         SAMSUNG

   CHANNEL
                  CH1
   SENSITIVITY
                  6
   DURATION
                  05
   SIZE
                  2

                                    OK
   DEFAULT      ALL-DEFAULT          ESC
```

7. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the selected channel will be reset to the default, and if selecting <**ALL-DEFAULT**>, all the channels will be reset to the factory default.

8. To return to the previous menu, select <**ESC**>.

Alarm Setup

You can set the input system of the alarm that is connected to the DVR.

See the previous section to repeat steps 1~3. (Page 30)

4. Use the up/down (▲▼) button to select <**ALARM SETUP**>, and press [**OK**].
The "**ALARM SETUP**" screen appears.

```
         CONFIGURATION        SAMSUNG

   HDD MANAGEMENT
   CAMERA SETUP
   MOTION SETUP
   ALARM SETUP
   INTERVAL SETUP
   DATE/TIME SETUP
   PASSWORD SETUP
   BUZZER SETUP



                                    ESC
```

5. Use the up/down (▲▼) button to move to a desired item.

- CHANNEL: Select a channel to set the alarm.
  - ▪ You can set the alarm for only one channel.
- TYPE: Set the sensor input system.
  - <**DISABLE**> : The sensor does not work.
  - <**NORMAL OPEN**> : The sensor is always open.
    The alarm will sound when the sensor is closed.
  - <**NORMAL CLOSE**> : The sensor is always closed.
    The alarm will sound when the sensor is open.
- DURATION: Specify the duration for which the DVR makes the alarm recording when an alarm sounds.
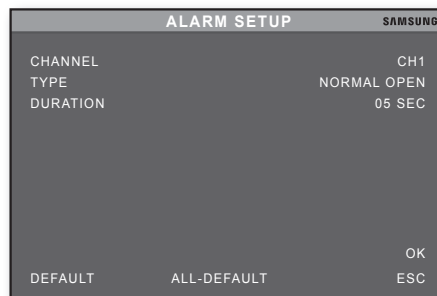
```
          ALARM SETUP          SAMSUNG

CHANNEL                           CH1
TYPE                      NORMAL OPEN
DURATION                       05 SEC




                                   OK
DEFAULT        ALL-DEFAULT         ESC
```

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the selected channel will be reset to the default, and if selecting
<**ALL-DEFAULT**>, all the channels will be reset to the factory default.

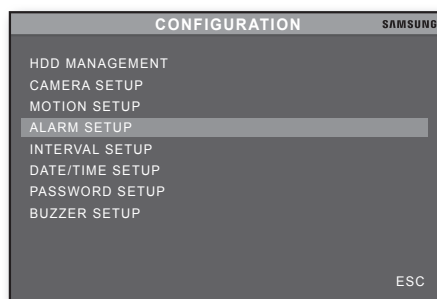**7.** To return to the previous menu, select <**ESC**>.

Interval Setup

You can specify the interval for Auto Sequence, or PIP (Picture In Picture) mode.

See the previous section to repeat steps 1~3. (Page 30)

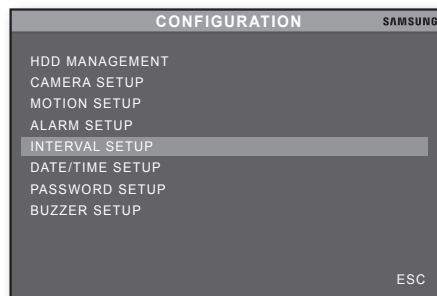**4.** Use the up/down (▲▼) button to select <**INTERVAL SETUP**>, and press [**OK**].

5. Use the up/down (▲▼) button to move to a desired item.

```
        CONFIGURATION          SAMSUNG

HDD MANAGEMENT
CAMERA SETUP
MOTION SETUP
ALARM SETUP
INTERVAL SETUP
DATE/TIME SETUP
PASSWORD SETUP
BUZZER SETUP



                                   ESC
```

6. Use the up/down (▲▼) button to move to a desired item.

- SEQUENCE SCREEN: In Live full screen, specify the auto sequence interval for each camera channel.
- PIP SCREEN: Specify the interval for auto sequence for the sub picture in PIP mode.
- EVENT UPDATE: Specify the interval of updating the event list for incoming events.
  If the interval is set to 10 seconds, the next event can be updated 10 seconds after the first event was registered to the event list.
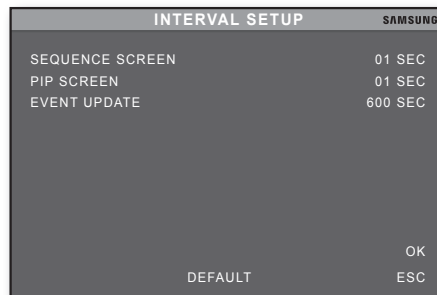
```
         INTERVAL SETUP        SAMSUNG

SEQUENCE SCREEN                 01 SEC
PIP SCREEN                      01 SEC
EVENT UPDATE                   600 SEC




                                   OK
               DEFAULT             ESC
```

7. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

8. To return to the previous menu, select <**ESC**>.

● SETUP

setup

Date/Time Setup

You can configure the settings of Date/Time, Format, and Daylight Saving.

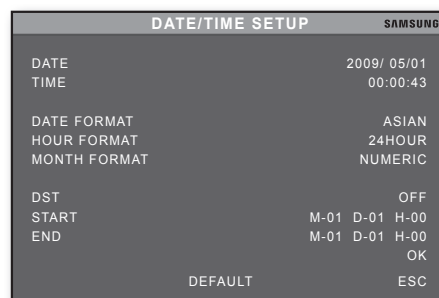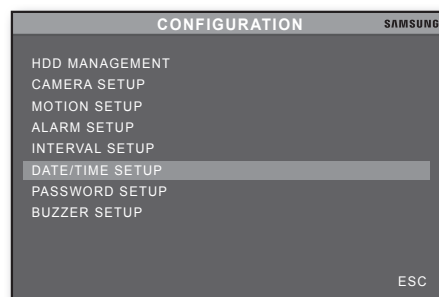See the previous section to repeat steps 1~3. (Page 30)

4. Use the up/down (▲▼) button to select <**DATE/TIME SETUP**>, and press [**OK**].
The "**DATE/TIME SETUP**" screen appears.

5. Use the up/down (▲▼) button to move to a desired item.

- DATE, TIME: Specify the date and time.

- DATE FORMAT: Select a date format for your area. (Asian/European/American)

- HOUR FORMAT: Specify a time format to your preference. (12 Hour/24 Hour)

- MONTH FORMAT: Specify a month format to your preference. (English, Numeric)

- DST (Daylight Saving Time): Set whether to use DST. If you select <**ON**> and specify the start and end dates, the system time will be set one hour ahead of the local standard time.

- START: Specify the start time for DST in a format of M(month)/D(day)/H(hour).

- END: Specify the end time for DST in a format of M(month)/D(day)/H(hour).

```
                  CONFIGURATION        SAMSUNG

       HDD MANAGEMENT
       CAMERA SETUP
       MOTION SETUP
       ALARM SETUP
       INTERVAL SETUP
       DATE/TIME SETUP
       PASSWORD SETUP
       BUZZER SETUP


                                              ESC
```

```
                  DATE/TIME SETUP      SAMSUNG

       DATE                            2009/ 05/01
       TIME                              00:00:43

       DATE FORMAT                           ASIAN
       HOUR FORMAT                          24HOUR
       MONTH FORMAT                        NUMERIC

       DST                                     OFF
       START                    M-01  D-01  H-00
       END                      M-01  D-01  H-00
                                                OK
                       DEFAULT                 ESC
```

> ⚠ ▪ If you set the DST option with one hour moved up, the recorded data of corresponding one hour will be lost.
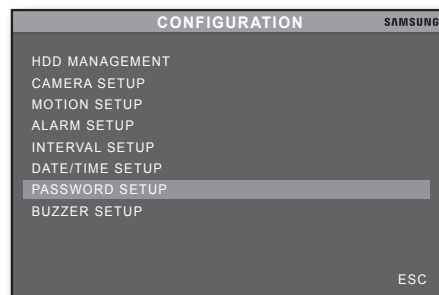
6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

Password Setup

You can replace the default password with a new one to your preference.

See the previous section to repeat steps 1~3. (Page 30)

4. Use the up/down (▲▼) button to select <**PASSWORD SETUP**>, and press [**OK**].
The "**PASSWORD SETUP**" screen appears.

```
                  CONFIGURATION        SAMSUNG

       HDD MANAGEMENT
       CAMERA SETUP
       MOTION SETUP
       ALARM SETUP
       INTERVAL SETUP
       DATE/TIME SETUP
       PASSWORD SETUP
       BUZZER SETUP



                                              ESC
```

5. Use the up/down (▲▼) button to move to a desired item.

- USER ID: Select a user ID.
  You will have a total of 10 IDs available including Admin.

  - ADMIN: The administrator can set and perform all features of the DVR.

  - MANAGER: In a local PC, you can change the password of the manager and perform backup. You can access Client Setup, Backup, Player, Search, and Remote Viewer directly from the Web Viewer.

  - USER: In a local PC, you can change the password of the user and perform backup.
    You can access Client Setup, Player, Search, and Remote Viewer directly from the Web Viewer. You can backup the user data in a local PC, but not in the Web Viewer.

> ✎ ▪ The manager can change only his/her own password. In similarity, the user can change only his/her own password. Only the administrator can change all passwords for all accounts

- USER PW: Provide the default password.

- NEW PW/CONFIRM: Provide a new password.

6. Provide a new password and select <**ENTER**> to apply the new password; if you enter an invalid password, an error message will appear.

7. When done, select <**ESC**>.
Your setting will be applied.

Buzzer Setup

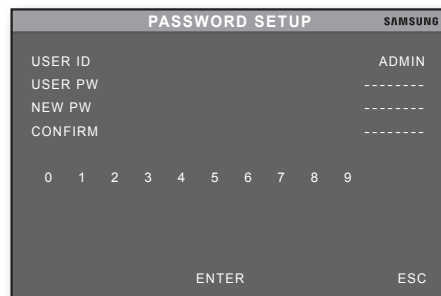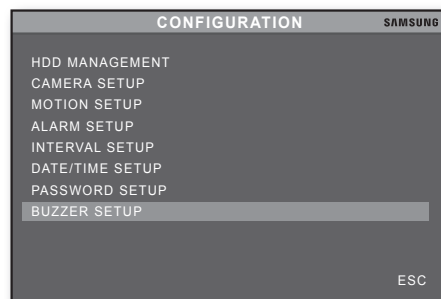You can set whether to use the buzzer sound.

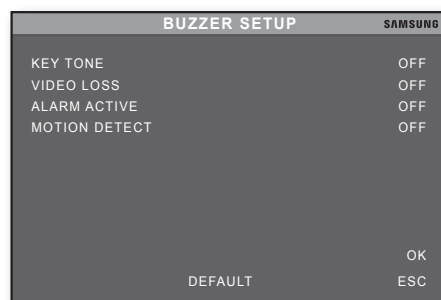See the previous section to repeat steps 1~3. (Page 30)

4. Use the up/down (▲▼) button to select <**BUZZER SETUP**>, and press [**OK**].
The "**BUZZER SETUP**" screen appears.

5. Use the up/down (▲▼) button to move to a desired item.

- KEY TONE: Set the key tone of the button.

- VIDEO LOSS: Set to sound the buzzer if a video loss occurs.

- ALARM ACTIVE: Set to sound the buzzer on a sensor signal input.

- MOTION DETECT: Set to sound the buzzer when a motion is detected.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

PASSWORD SETUP   SAMSUNG

USER ID	ADMIN
USER PW	--------
NEW PW	--------
CONFIRM	--------

0   1   2   3   4   5   6   7   8   9

ENTER   ESC

CONFIGURATION   SAMSUNG

HDD MANAGEMENT
CAMERA SETUP
MOTION SETUP
ALARM SETUP
INTERVAL SETUP
DATE/TIME SETUP
PASSWORD SETUP
BUZZER SETUP

ESC

BUZZER SETUP   SAMSUNG

KEY TONE	OFF
VIDEO LOSS	OFF
ALARM ACTIVE	OFF
MOTION DETECT	OFF

OK

DEFAULT   ESC

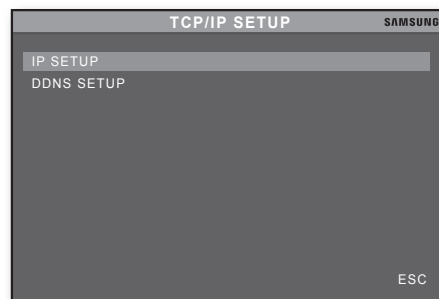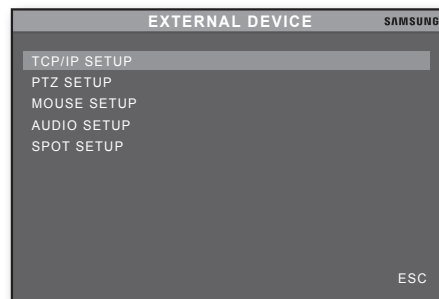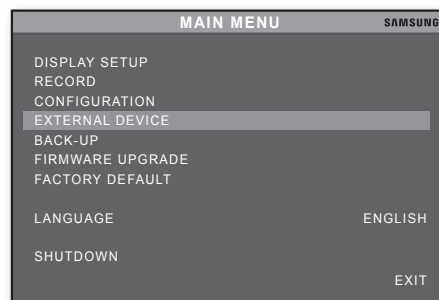● SETUP

setup

EXTERNAL DEVICE

You can configure the settings of Network, PTZ, Mouse, Audio, and Spot output.

TCP/IP Setup

You can view the Live screen, configure the DVR settings, and backup HDD data remotely via the network.

IP Setup

1. Press the [**MENU**] button on the remote control or the front panel.
The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
The "**MAIN MENU**" screen appears.

3. Use the up/down (▲▼) button to select <**EXTERNAL DEVICE**>, and press [**OK**].
The "**EXTERNAL DEVICE**" screen appears.

```
            MAIN MENU          SAMSUNG

  DISPLAY SETUP
  RECORD
  CONFIGURATION
  EXTERNAL DEVICE
  BACK-UP
  FIRMWARE UPGRADE
  FACTORY DEFAULT

  LANGUAGE                    ENGLISH

  SHUTDOWN

                                EXIT
```

4. Use the up/down (▲▼) button to select <**TCP/IP SETUP**>, and press [**OK**].
The "**TCP/IP SETUP**" screen appears.

```
          EXTERNAL DEVICE      SAMSUNG

  TCP/IP SETUP
  PTZ SETUP
  MOUSE SETUP
  AUDIO SETUP
  SPOT SETUP




                                 ESC
```

5. Use the up/down (▲▼) button to select <**IP SETUP**>, and press [**OK**].
The "**IP SETUP**" screen appears.

```
           TCP/IP SETUP        SAMSUNG

  IP SETUP
  DDNS SETUP






                                 ESC
```

6. Use the up/down (▲▼) button to move to a desired item.

- **MAC ADDRESS:** Shows information of the network that is assigned to the DVR.
- **DHCP MODE:** If you set this to <**AUTO**>, IP address and other network settings will be assigned from the DHCP server. (Only the IP port can be set manually) If you set this to <**MANUAL**>, you can specify all of the settings below:
- **IP PORT, IP ADDRESS, GATEWAY, SUBNET:** Manually enter the value according to the network environment if you set the DHCP Setup to Manual.

7. When done, select <**OK**>.
Your setting will be applied.

8. To return to the previous menu, select <**ESC**>.

```
              IP SETUP              SAMSUNG

MAC ADDRESS                       00-0A-A2-08-08-F3
DHCP MODE                                   MANUAL
                                         IP DETECT
IP PORT                                      50000
IP ADDRESS                          192.168.001.160
GATEWAY                             192.168.001.001
SUBNET                             255.255.255.000

BANDWIDTH                        HIGH    (1.5Mbps↑)
WEB SERVER PORT                              00080
                                                OK
                                               ESC
```

DDNS Setup

You can specify a DDNS site to access when a remote user connects to the network.

What is DDNS?

DDNS is an acronym for Dynamic DNS(Domain Name System).

DNS(Domain Name System) is a domain service to redirect the IP address (ex: 64.233.189.104) to a name that the user can remember with ease (ex: www.google.com).

DDNS(Dynamic DNS) is the IP registration service that registers a domain name that the user remembers and a changed IP address with the DDNS server so that the user can redirect to the registered domain name if the previous IP address is changed in a dynamic IP environment.

Checking the DDNS Address

A DDNS address consists of <**English lower case "g"**> + <**MAC address 6 digits from the end**> + <**websamsung.net**>.

- Ex) If 6 digits of the MAC address of the DVR are <**00:00:f0**> from the end:
  g + 0000f0 + websamsung.net = g0000f0.websamsung.net

See the previous section to repeat steps 1~4. (Page 36)

5. Use the up/down (▲▼) button to select <**DDNS SETUP**>, and press [**OK**].
The "**DDNS SETUP**" screen appears.

6. Use the up/down (▲▼) button to move to a desired item.

- **DDNS ENABLE:** Set whether to use the DDNS.
- **DDNS STATUS:** If you set DDNS Enable to <**ON**>, you will see a message of the status of the DDNS on the screen.

7. When done, select <**OK**>.
Your setting will be applied.

8. To return to the previous menu, select <**ESC**>.

```
              DDNS SETUP            SAMSUNG

DDNS ENABLE                                    OFF
                                          REGISTER

DDNS STATUS


http://g0808f3.websamsung.net:80



                                                OK
                                               ESC
```

● SETUP
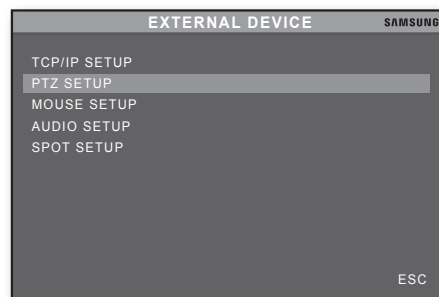
setup

PTZ Setup

You can set the model, ID and speed of the PTZ camera for each channel including the size and cord.

Command Setup
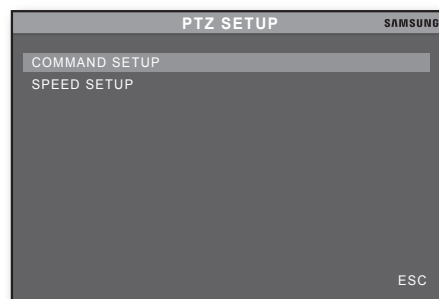
See the previous section to repeat steps 1~3. (Page 36)

4. Use the up/down (▲▼) button to select <**PTZ SETUP**>, and press [**OK**].
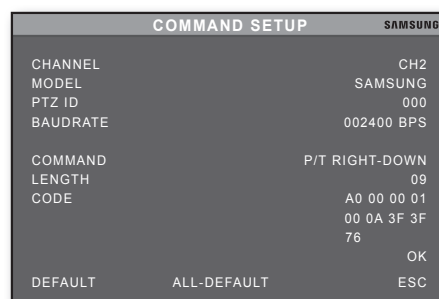The "**PTZ SETUP**" screen appears.

```
              EXTERNAL DEVICE        SAMSUNG

     TCP/IP SETUP
     PTZ SETUP
     MOUSE SETUP
     AUDIO SETUP
     SPOT SETUP




                                          ESC
```

5. Use the up/down (▲▼) button to select <**COMMAND SETUP**>, and press [**OK**].
The "**COMMAND SETUP**" screen appears.

```
                 PTZ SETUP           SAMSUNG

     COMMAND SETUP
     SPEED SETUP




                                          ESC
```

6. Use the up/down (▲▼) button to move to a desired item.

- CHANNEL: Select a channel.

- MODEL: Select a model available.

- PTZ ID: Specify an ID number.

- BAUDRATE: Set the bit rate for the applicable model.

- COMMAND: Select a command.

- LENGTH: Specify the duration of each command.

- CODE: Displays a code that is associated with the command.

```
              COMMAND SETUP          SAMSUNG

     CHANNEL                              CH2
     MODEL                            SAMSUNG
     PTZ ID                               000
     BAUDRATE                       002400 BPS

     COMMAND                    P/T RIGHT-DOWN
     LENGTH                                09
     CODE                          A0 00 00 01
                                    00 0A 3F 3F
                                    76
                                             OK
     DEFAULT        ALL-DEFAULT          ESC
```

7. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the selected channel will be reset to the default, and if selecting <**ALL-DEFAULT**>, all the channels will be reset to the factory default.

8. To return to the previous menu, select <**ESC**>.

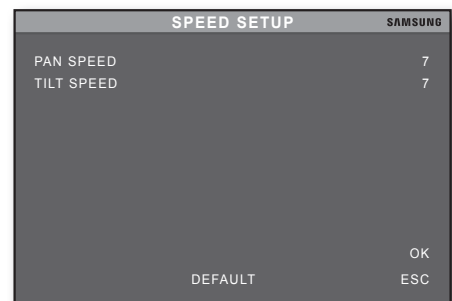02489A_SHR-3040_ENG.indb   38
2009-11-10   오후 2:13:52

Speed Setup

You can set the pan and tilt speed of the PTZ camera.

See the previous section to repeat steps 1~3. (Page 36)

4. Use the up/down (▲▼) button to select <**PTZ SETUP**>, and press [**OK**].
The "**PTZ SETUP**" screen appears.

5. Use the up/down (▲▼) button to select <**SPEED SETUP**>, and press [**OK**].
The "**SPEED SETUP**" screen appears.
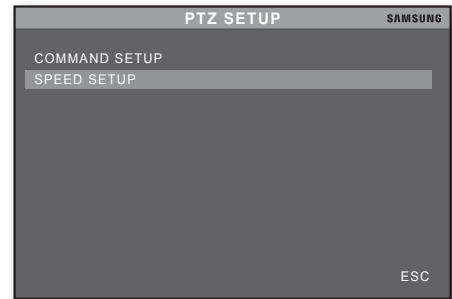
6. Use the up/down (▲▼) button to move to <**PAN SPEED**> or <**TILT SPEED**> and specify the applicable speed.

7. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

8. To return to the previous menu, select <**ESC**>.

PTZ SETUP	SAMSUNG
COMMAND SETUP	
SPEED SETUP	
	ESC

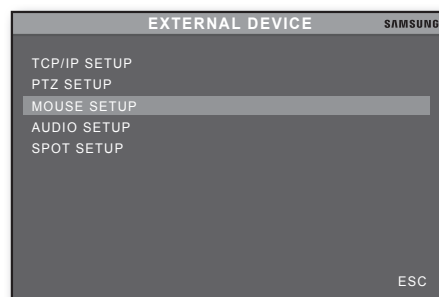| SPEED SETUP	SAMSUNG
PAN SPEED	7
TILT SPEED	7
	OK
DEFAULT	ESC

● SETUP

setup

Mouse Setup

You can adjust the operational sensitivity of the cursor.
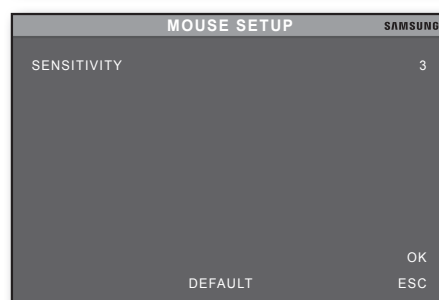
See the previous section to repeat steps 1~3. (Page 36)

4. Use the up/down (▲▼) button to select <**MOUSE SETUP**>, and press [**OK**].
The "**MOUSE SETUP**" screen appears.

```
         EXTERNAL DEVICE        SAMSUNG

   TCP/IP SETUP
   PTZ SETUP
   MOUSE SETUP
   AUDIO SETUP
   SPOT SETUP




                                ESC
```

5. Specify the <**SENSITIVITY**>.
  ▪ The higher the value is, the faster the mouse moves.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

7. To return to the previous menu, select <**ESC**>.

```
          MOUSE SETUP          SAMSUNG

   SENSITIVITY                       3




                                     OK
          DEFAULT                    ESC
```
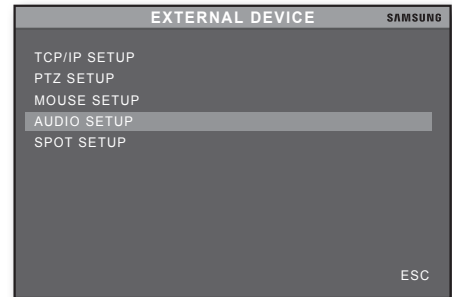
Audio Setup

You can adjust the I/O volume for the channel.

During video recording, sound from the selected channel will be recorded as well.

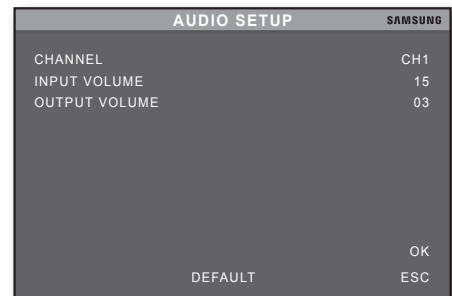See the previous section to repeat steps 1~3. (Page 36)

4. Use the up/down (▲▼) button to select <**AUDIO SETUP**>, and press [**OK**].
The "**AUDIO SETUP**" screen appears.

```
EXTERNAL DEVICE          SAMSUNG

TCP/IP SETUP
PTZ SETUP
MOUSE SETUP
AUDIO SETUP
SPOT SETUP




                                ESC
```

● SETUP

5. Use the up/down (▲▼) button to move to a desired item.

- CHANNEL: Select a channel that will be connected to the audio input. If you set it to <**OFF**>, the audio icon will be grayed out and no audio data will be recorded.

- INPUT VOLUME: Specify the audio input gain. If you specify <**00**> for the volume, the audio sound will be mute.

- OUTPUT VOLUME: Specify the audio output gain.

```
AUDIO SETUP          SAMSUNG

CHANNEL                         CH1
INPUT VOLUME                     15
OUTPUT VOLUME                    03




                                 OK
          DEFAULT               ESC
```

> ■ The audio output will be available only through the speaker.
> It is recommended to install powered speakers (with the built-in amplifier) if the audio output level is weak depending on the use environment.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

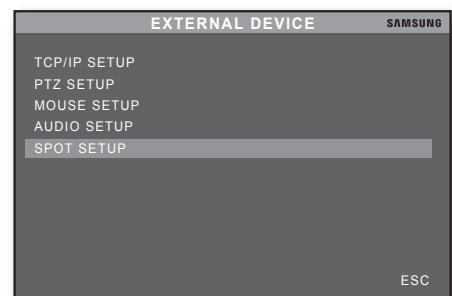**7.** To return to the previous menu, select <**ESC**>.

Spot Setup

Apart from the Live screen, you can use the spot monitor to monitor a specific channel through the SPOT OUT port.

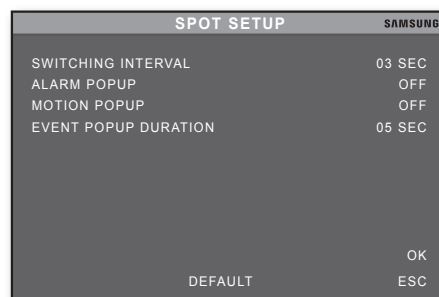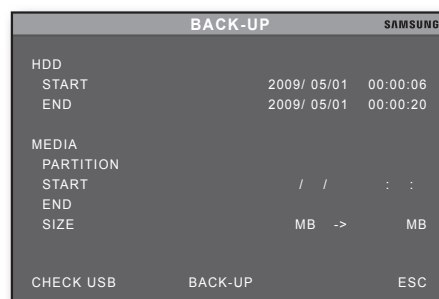See the previous section to repeat steps 1~3. (Page 36)

4. Use the up/down (▲▼) button to select <**SPOT SETUP**>, and press [**OK**].
The "**SPOT SETUP**" screen appears.

```
EXTERNAL DEVICE          SAMSUNG

TCP/IP SETUP
PTZ SETUP
MOUSE SETUP
AUDIO SETUP
SPOT SETUP




                                ESC
```

setup

5. Use the up/down (▲▼) button to move to a desired item.

- SWITCHING INTERVAL: Specify the switching interval for the spot monitor.

- ALARM POPUP: Set to display a popup if a alarm signal is detected.

- MOTION POPUP: Set to display a popup if a motion signal is detected.

- EVENT POPUP DURATION: Specify the event popup duration.

6. When done, select <**OK**>.
Your setting will be applied.
If you select <**DEFAULT**>, the settings will be restored to the factory default.

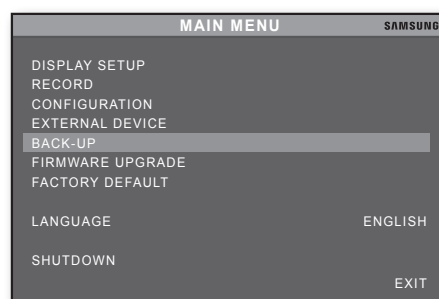**7.** To return to the previous menu, select <**ESC**>.

	SPOT SETUP	SAMSUNG
SWITCHING INTERVAL		03 SEC
ALARM POPUP		OFF
MOTION POPUP		OFF
EVENT POPUP DURATION		05 SEC
		OK
	DEFAULT	ESC

BACKUP

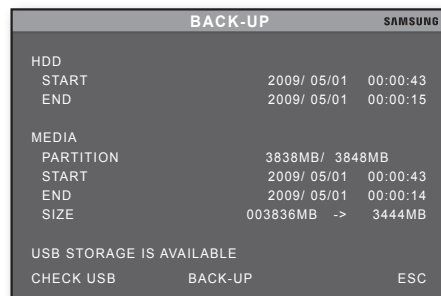You can backup HDD recording data on a USB storage device.

Backup

1. Press the [**MENU**] button on the front panel or remote control.
The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
The "**MAIN MENU**" screen appears.

3. Use the up/down (▲▼) button to select <**BACK-UP**>, and press [**OK**].
The "**BACK-UP**" screen appears.

	MAIN MENU	SAMSUNG
DISPLAY SETUP		
RECORD		
CONFIGURATION		
EXTERNAL DEVICE		
BACK-UP		
FIRMWARE UPGRADE		
FACTORY DEFAULT		
LANGUAGE		ENGLISH
SHUTDOWN		
		EXIT

4. Connect the USB device and select <**CHECK USB**>.
A device list of the search results will appear with device information.

	BACK-UP	SAMSUNG
HDD		
START	2009/ 05/01	00:00:06
END	2009/ 05/01	00:00:20
MEDIA		
PARTITION		
START	/ /	: :
END		
SIZE	MB ->	MB
CHECK USB	BACK-UP	ESC

5. Specify the start time, date range and size to backup.

  ▪ You can specify the backup size for a backup device. The end time and date will be set according to the backup size.

  ▪ You can change the start time and date if you want to.

6. Select <**BACK-UP**>.
USB backup gets started.

  ⚠ ▪ During backup, recording will be stopped and the Live screen will be lost in the viewer.

```
                    BACK-UP              SAMSUNG

 HDD
  START                        2009/ 05/01    00:00:43
  END                          2009/ 05/01    00:00:15

 MEDIA
  PARTITION                       3838MB/ 3848MB
  START                        2009/ 05/01    00:00:43
  END                          2009/ 05/01    00:00:14
  SIZE                         003836MB  ->   3444MB

 USB STORAGE IS AVAILABLE
 CHECK USB          BACK-UP                      ESC
```

7. When backup is done, the start time will be moved later than the completion time, and the end time will be adjusted according to the backup size.

8. Launch the web viewer from a remote PC where you can check the backup data using the <**PLAYER**>.

  ▪ You can also play the data using <**AUTO PLAYER**> that is created in the USB storage device after the backup.

System Messages

You will see the following messages when the DVR has checked USB storage devices.

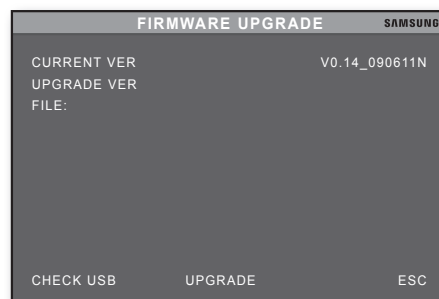| If no USB storage is inserted	If a USB storage is recognized
USB STORAGE IS NOT AVAILABLE. CHECK USB RECONNECT THE USB STORAGE. CONNECT THE OTHER USB STORAGE.	CHECK USB THERE IS A FREE SPACE ON STORAGE. USB STORAGE IS AVAILABLE.
During backup	**Error messages**
START WRITING IN USB STORAGE. FINISH WRITING IN USB STORAGE.	THERE IS A PROBLEM ON USB PORT (If USB port does not operate properly) USB STORAGE IS FULL. (No free space in the USB device) CHANGE WRITE PROTECT MODE. (Write protection mode) FILE SYSTEM IS NOT SUPPORTED. (If the file system is not supported) SIZE IS LARGER THAN FREE SPACE. (If backup size is larger than the free space in the USB device)

setup

FIRMWARE UPGRADE

You can upgrade the DVR firmware with the latest version.

Upgrade

1. Press the [**MENU**] button on the front panel or remote control.
   The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
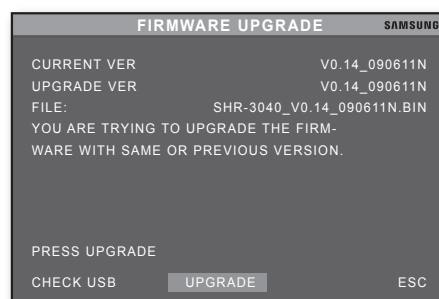   The "**MAIN MENU**" screen appears.

```
              MAIN MENU          SAMSUNG

  DISPLAY SETUP
  RECORD
  CONFIGURATION
  EXTERNAL DEVICE
  BACK-UP
  FIRMWARE UPGRADE
  FACTORY DEFAULT

  LANGUAGE                       ENGLISH

  SHUTDOWN

                                    EXIT
```
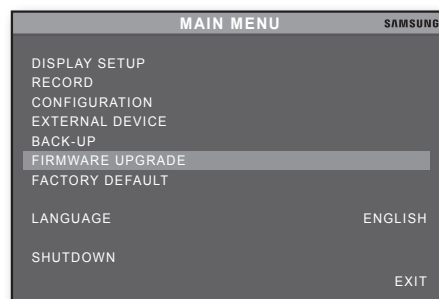
3. Use the up/down (▲▼) button to select <**FIRMWARE UPGRADE**>, and press [**OK**].
   The "**FIRMWARE UPGRADE**" screen appears.

4. Connect the USB device that stores upgradeable files.

5. Select <**CHECK USB**>.

```
          FIRMWARE UPGRADE        SAMSUNG

  CURRENT VER                V0.14_090611N
  UPGRADE VER
  FILE:




  CHECK USB      UPGRADE             ESC
```

6. If there founds any upgradeable file, select <**UPGRADE**>.

7. After the login process, the DVR will perform the upgrade step by step.

8. When done, restart the player.

   ▪ During the firmware upgrade, recording will be stopped and the Live screen in the viewer may skip.

   ▪ As the player performs upgrade with the first one if there is more than one upgradeable file in the USB device, so ensure that there should be only one upgrade file in the USB device.
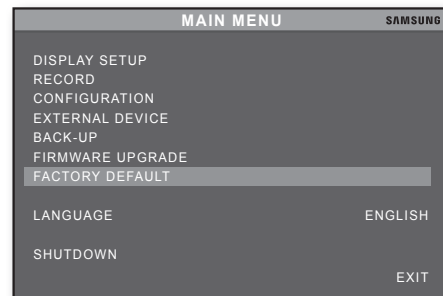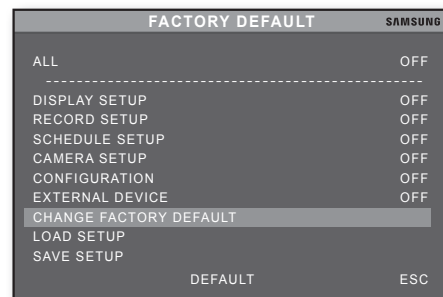
```
          FIRMWARE UPGRADE        SAMSUNG

  CURRENT VER                V0.14_090611N
  UPGRADE VER                V0.14_090611N
  FILE:         SHR-3040_V0.14_090611N.BIN
  YOU ARE TRYING TO UPGRADE THE FIRM-
  WARE WITH SAME OR PREVIOUS VERSION.



  PRESS UPGRADE
  CHECK USB       UPGRADE            ESC
```

FACTORY DEFAULT

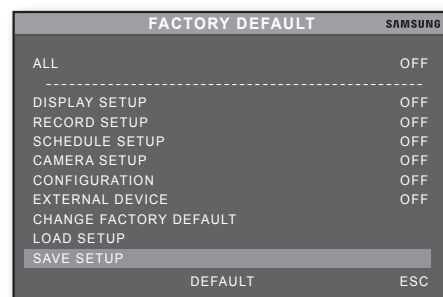You can restore the settings to the factory default.

Factory Default

1. Press the [**MENU**] button on the front panel or remote control.
The "**DVR LOG-IN**" dialog appears.

2. Enter the password and select <**ENTER**>.
The "**MAIN MENU**" screen appears.

```
                    MAIN MENU          SAMSUNG

   DISPLAY SETUP
   RECORD
   CONFIGURATION
   EXTERNAL DEVICE
   BACK-UP
   FIRMWARE UPGRADE
   FACTORY DEFAULT

   LANGUAGE                            ENGLISH

   SHUTDOWN
                                          EXIT
```

3. Use the up/down (▲▼) button to select <**FACTORY DEFAULT**>, and press [**OK**].
The "**FACTORY DEFAULT**" screen appears.

4. Use the up/down (▲▼) button to move to an item to reset and select <**ON**>.

5. Select <**DEFAULT**> in the bottom.
The selected item will be reset to the factory default.

- ▪ To reset all items, set <**ALL**> to <**ON**> and select <**DEFAULT**>.

```
                 FACTORY DEFAULT       SAMSUNG

   ALL                                    OFF
   -------------------------------------------
   DISPLAY SETUP                          OFF
   RECORD SETUP                           OFF
   SCHEDULE SETUP                         OFF
   CAMERA SETUP                           OFF
   CONFIGURATION                          OFF
   EXTERNAL DEVICE                        OFF
   CHANGE FACTORY DEFAULT
   LOAD SETUP
   SAVE SETUP
                     DEFAULT             ESC
```
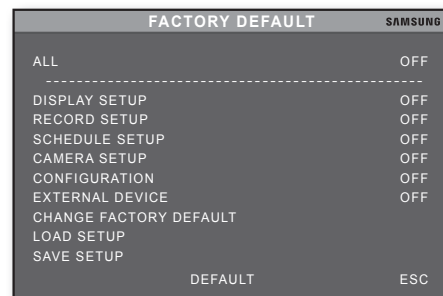
Changing Factory Default

You can customize the factory default settings to your preference.

1. Connect a FAT 32 formatted USB storage device and select <**SAVE SETUP**>.
When done, you will see a message of "**LOAD SETUP SUCCESS**" on the screen.

- ▪ All current settings of the DVR will be saved to the USB device. It takes 5 to10 seconds, depending on the USB device.

```
                 FACTORY DEFAULT       SAMSUNG

   ALL                                    OFF
   -------------------------------------------
   DISPLAY SETUP                          OFF
   RECORD SETUP                           OFF
   SCHEDULE SETUP                         OFF
   CAMERA SETUP                           OFF
   CONFIGURATION                          OFF
   EXTERNAL DEVICE                        OFF
   CHANGE FACTORY DEFAULT
   LOAD SETUP
   SAVE SETUP
                     DEFAULT             ESC
```

2. When done, select <**CHANGE FACTORY DEFAULT**>.
You will see a message of "**CHANGE FACTORY DEFAULT SUCCESS**" on the screen.
The factory default is changed successfully.

- ▪ It takes 5 to10 seconds, depending on the USB device.

```
                 FACTORY DEFAULT       SAMSUNG

   ALL                                    OFF
   -------------------------------------------
   DISPLAY SETUP                          OFF
   RECORD SETUP                           OFF
   SCHEDULE SETUP                         OFF
   CAMERA SETUP                           OFF
   CONFIGURATION                          OFF
   EXTERNAL DEVICE                        OFF
   CHANGE FACTORY DEFAULT
   LOAD SETUP
   SAVE SETUP
                     DEFAULT             ESC
```

● SETUP

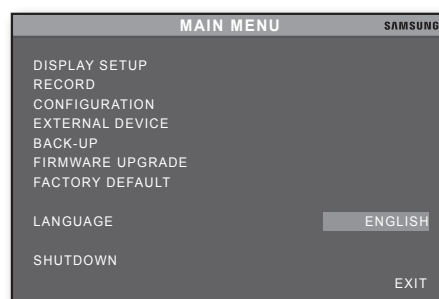English _**45**

setup

Load Setup

1. Connect the USB device where your settings are saved.

2. Select <**LOAD SETUP**>.
The DVR settings will be changed to your settings with a message of "**LOAD SETUP SUCCESS**" on the screen.

- It takes 5 to 10 seconds, depending on the USB device. This will change the DVR settings, not the factory default.

```
                 FACTORY DEFAULT       SAMSUNG

ALL                                        OFF
  --------------------------------------------------
DISPLAY SETUP                              OFF
RECORD SETUP                               OFF
SCHEDULE SETUP                             OFF
CAMERA SETUP                               OFF
CONFIGURATION                              OFF
EXTERNAL DEVICE                            OFF
CHANGE FACTORY DEFAULT
LOAD SETUP
SAVE SETUP
                       DEFAULT              ESC
```
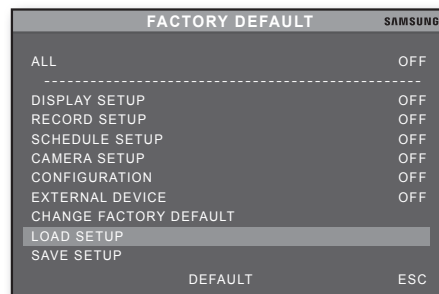
LANGUAGE

You can select a language to your preference.

1. Use the up/down (▲▼) button to select a language.
The selected language will be applied immediately.

```
                    MAIN MENU         SAMSUNG

DISPLAY SETUP
RECORD
CONFIGURATION
EXTERNAL DEVICE
BACK-UP
FIRMWARE UPGRADE
FACTORY DEFAULT

LANGUAGE                            ENGLISH

SHUTDOWN
                                        EXIT
```

NETWORK CONNECTION AND SETTINGS

Network settings differ depending on the connection mode, so check your network connection mode before proceeding.

Connection

If connecting to a local network using a router

1. Launch the Internet browser.

2. Provide an IP address in the address bar.
   Ex) IP Address: 192.168.1.200 → http://192.168.1.200

If the HTTP port is other than 80

1. Launch the Internet browser.

2. Provide an IP address and HTTP port number of the DVR in the address bar.
   Ex) IP Address: 192.168.1.200: Port Number (1000) → http://192.168.1.200:10000

Connecting via URL

1. Launch the Internet browser.

2. Provide a DDNS URL of the DVR in the address bar.
   Ex) 6 digits from the end of the MAC address:
       <00:00:f0> → g + 0000f0 + websamsung.net = g0000f0.websamsung.net

Connecting via URL - If the HTTP port is other than 80

1. Launch the Internet Browser.

2. Provide a DDNS URL and HTTP port number of the camera in the address bar.
   Ex) IP Address: http://g0000f0.websamsung.net: Port Number (10000) →
       http://g000f0.websamsung.net:10000

setup

If you are not using a router for network connection

Static IP Mode

You can establish a direct connection, or connect DVR and remote users in a LAN environment.

Viewer

Network

SHR-3040

1. Set <**DHCP MODE**> to <**MANUAL**> in "**MAIN MENU >
EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**".

■ For information about the IP, gateway, and subnet mask, consult
your network administrator.

```
              IP SETUP              SAMSUNG

MAC ADDRESS                    00-0A-A2-08-08-F3
DHCP MODE                               MANUAL
                                     IP DETECT

IP PORT                                  50000
IP ADDRESS                      192.168.000.200
GATEWAY                         192.168.000.001
SUBNET                          255.255.255.000

BANDWIDTH               HIGH    (1.5Mbps↑)
WEB SERVER PORT                           00080
                                            OK

                                           ESC
```
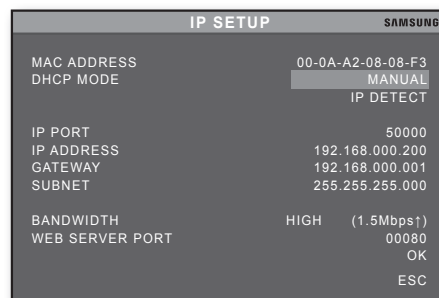
Dynamic IP (DHCP) Mode

You can connect the DVR directly to the cable modem, or directly to the optical LAN.

1. Set <**DHCP MODE**> to <**AUTO**> in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP >
IP SETUP**".

[!] ■ If authentication is required to connect to the broadband network separately, it is recommended to use a router.

2009-11-10   오후 2:14:04

If using a router

Check the followings to prevent a possible conflict with the static IP of the DVR.

Network   LAN   IP Router

Viewer

DSL Modem

LAN

SHR-3040
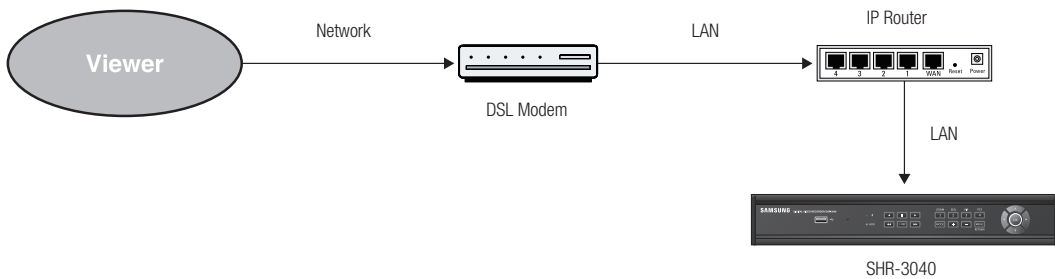
Using DVR Static IP

Internet Connection : You can connect the DVR to a ADSL/Cable modem-based IP router, or to the IP router in the LAN environment.

DVR Network

1. Set <**DHCP MODE**> to <**MANUAL**> in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**".

2. Check if the IP is a static IP provided by the router.
   - For information about the IP, gateway, and subnet mask, contact your network administrator.

   - If the start (192.168.0.100) and end address (192.168.0.200) of the DHCP server are already specified, provide other addresses (192.168.0.201~192.168.0.524).
   Check if the settings of the gateway and subnet mask match those of the IP router.

```
           IP SETUP              SAMSUNG

MAC ADDRESS                  00-0A-A2-08-08-F3
DHCP MODE                            MANUAL
                                  IP DETECT

IP PORT                               50000
IP ADDRESS                   192.168.000.200
GATEWAY                      192.168.000.001
SUBNET                       255.255.255.000

BANDWIDTH                HIGH    (1.5Mbps↑)
WEB SERVER PORT                       00080
                                         OK

                                        ESC
```

Router DHCP IP Address

1. To access the IP router menu, provide the router address in the address bar of the Internet browser from a local PC in connection with the IP router.(ex: http://192.168.1.1)

2. Then, specify the network settings of the local PC as follows:
   - Ex) IP: 192.168.1.2
        Subnet mask: 255.255.255.0
        Gateway: 192.168.1.1

3. Use the address to connect to the IP router and open the setup page.
   Access the DHCP setup menu of the IP router where you can select the DHCP server mode and specify the start and end address.
   Provide the start (192.168.0.100) and end (192.168.0.200) address, respectively.
   - The network settings may differ depending on the IP router.

setup

Port Forwarding with IP/Port Router

1. Enter the port forwarding setup menu of the router you use.

2. Port range for external use: Enter the IP port range specified in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**" of the connected DVR.
   - The IP / port can differ if multiple DVRs are connected to the router.

3. Internal PC IP Address: Enter the IP address specified in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**" of the connected DVR.

4. The internal port range should match "**EXTERNAL PORT RANGE**".

Port Forwarding of Web Server Port Router

1. Enter the port forwarding setup menu of the router you use.

2. Port range for external use: Enter the web server port range specified in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**" of the connected DVR.
   - The web server port range can differ if multiple DVRs are connected to the router.

3. Internal PC IP Address: Enter the IP address specified in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**" of the connected DVR.

4. Port range for internal use: The internal port range should match "**EXTERNAL PORT RANGE**".
   - The network settings may differ, depending on the router model.
     To connect to the DVR from outside, you must have set port forwarding for each of the IP port and web server port. Then, the IP port should be different from the web server port.

   - You can use DMZ to facilitate your setting. (If only one DVR is connected to the router) If you access the DMZ setup menu of the router and enter the IP address specified in "**MAIN MENU > EXTERNAL DEVICE > TCP/IP SETUP > IP SETUP**" of the connected DVR, no separate port forwarding setting is necessary as all IP ports (IP port and web server port) of the DVR will be Open.

web viewer

WHAT IS WEB VIEWER?

Web Viewer enables you to connect to the DVR remotely and transfer live video, play and backup recording data, and configure settings remotely.

System Requirements

The minimum hardware / operating system requirements to operate the Web Viewer are as below:

• CPU: Pentium 4 / 3GHz or faster (hyper-threading supported)

• RAM: 1 GB or more

CONNECTING TO THE WEB VIEWER

1. Open the web browser and enter the IP address or URL of the DVR in the address bar.
    - The address setting may differ, depending on the network connection mode.

2. Click <**Install ActiveX Control…**>.
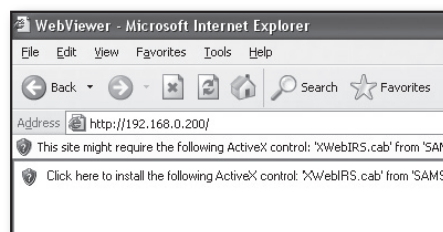
3. In the Security Alert popup, select <**Install**>.

4. When done, you will see the start screen of the Web Viewer.

English _**51**

web viewer

WEB VIEWER AT A GLANCE

Item	Description
1 CLIENT SETUP	Allows you to add/edit information necessary for network connection of the Web Viewer.
2 REMOTE SETUP	Enables you to configure some settings of the DVR from a remote PC.
3 BACKUP	Copies video data of the DVR to the PC.
4 PLAYER	Opens and plays backup data in a remote PC.
5 REMOTE VIEWER	You can view the Live screen of the currently connected DVR.
6 SEARCH	You can select and play video data of the DVR.

CLIENT SETUP

Allows you to add/edit information necessary for network connection of the Web Viewer.

Web Viewer Setup

To register a web site

1. Click <**CLIENT SETUP**>.

2. Click <**REGISTERING SITE**>.
The "**CLIENT SETUP**" screen appears.
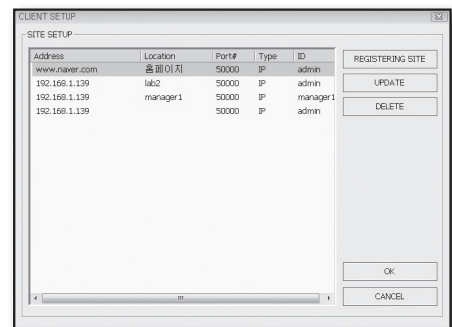
3. Provide information about the site to register.

- ADDRESS: Enter the IP address that you specified in the DVR.
- PORT: Enter the port number that you specified in the DVR.
- LOCATION: Enter the location name that is registered with the server.
- USER ID/PASSWORD: Enter the user ID and password that you specified in the DVR.

4. Click <**OK**>.
A list of registered sites will be displayed.
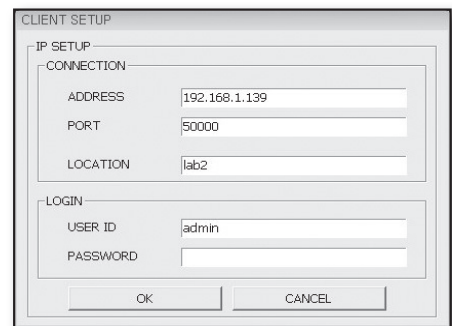
Update

Click <**UPDATE**> if you want to change information of a REGISTERED SITE.

Others

- DELETE: You can delete a site in the REGISTERED SITE list.
- OK: You can select and connect to a site in the registered site list.
- CANCEL: Cancels your settings in CLIENT SETUP.

02489A_SHR-3040_ENG.indb   53   2009-11-10   오후 2:14:09

web viewer

REMOTE SETUP

You can configure some settings of a remotely connected DVR.

1. Click <**REMOTE SETUP**>.

2. Select <**MANUAL**> and provide a value for <**ADDRESS**>, <**PORT NUMBER**>, and <**ID**> respectively.

- Information of the DVR with the first connected address will be displayed.

- The "**admin**" account alone is enabled to access.

3. Enter the <**PASSWORD**> and click <**CONNECT**>. Your PC will be connected to the DVR remotely.

- The network icon on the DVR screen will switch to display the connection status.

4. Select a desired item from <**CONFIGURATION**>, <**RECORD**> and <**EXTERNAL**> in the left.

5. When done, click <**DISCONNECT**>. The current DVR will be disconnected.

6. To return to the Web Viewer screen, click <**CLOSE**>.
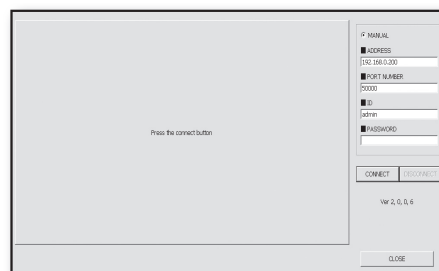
Alarm Setup

You can set the alarm input system and duration for the channel.
Refer to "**ALARM SETUP**". (Page 32)
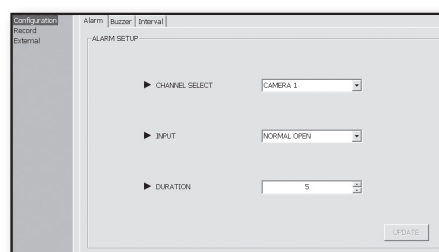
Buzzer

You can set the use of the buzzer sound during DVR operation.
Refer to "**BUZZER SETUP**". (Page 35)
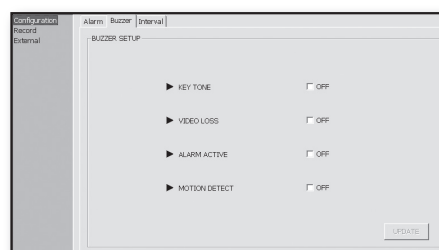
Interval Setup

You can set the sequence screen time, or event record time.
Refer to "**INTERVAL SETUP**". (Page 33)
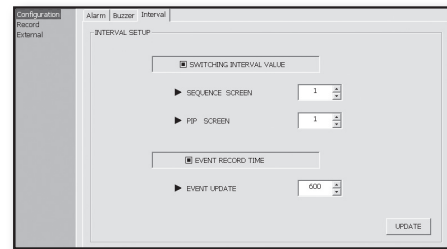
Record Configuration

You can set the recording quality.
Refer to "**RECORD SETUP**". (Page 28)
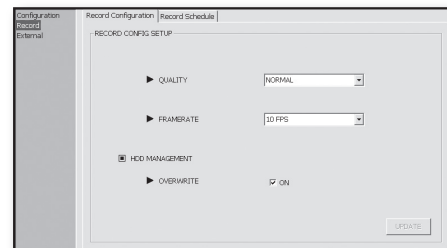
Record Schedule

You can set the recording schedule.
Refer to "**SCHEDULE SETUP**". (Page 29)
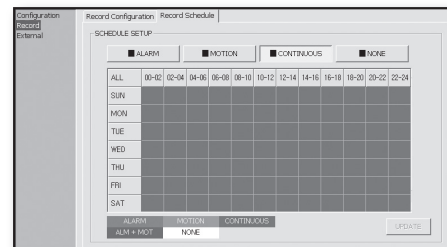
● WEB VIEWER

web viewer

BACKUP

1. Enter each necessary item and provide the <**USER PASSWORD**>.

2. Click <**CONNECT TEST**>.
When your configuration passes the test, you will see a message of "**Success Connect Test!**" On the <**MESSAGE**> box.

3. Click <**LOCK**> and then select <**SET BACKUP TIME**>.
The "**BACKUP INFORMATION**" window appears.

4. Click <**BROWSE**> to specify the <**SAVE FILE PATH**>.

5. Specify the max storage size, and the start and end time.

6. Click <**APPLY**>.
You can check that a backup file is created in the specified path.

7. Click <**START BACKUP**>.
The button will switch to <**STOP BACKUP**> with a backup file in the specified path.

   ▪ The backup format is AM4.

You can play and edit the backup file using the "**PLAYER**".

   ⚠ ▪ Backup is available with the "**admin**" and "**manager**" account.

PLAYER

You can play a file that is backed up on your PC.

1. Click <**PLAYER**>.
The "**PLAYER**" window appears.

2. Click <**OPEN**> and select a desired backup file.
The selected backup file starts being played.

Player at a Glance
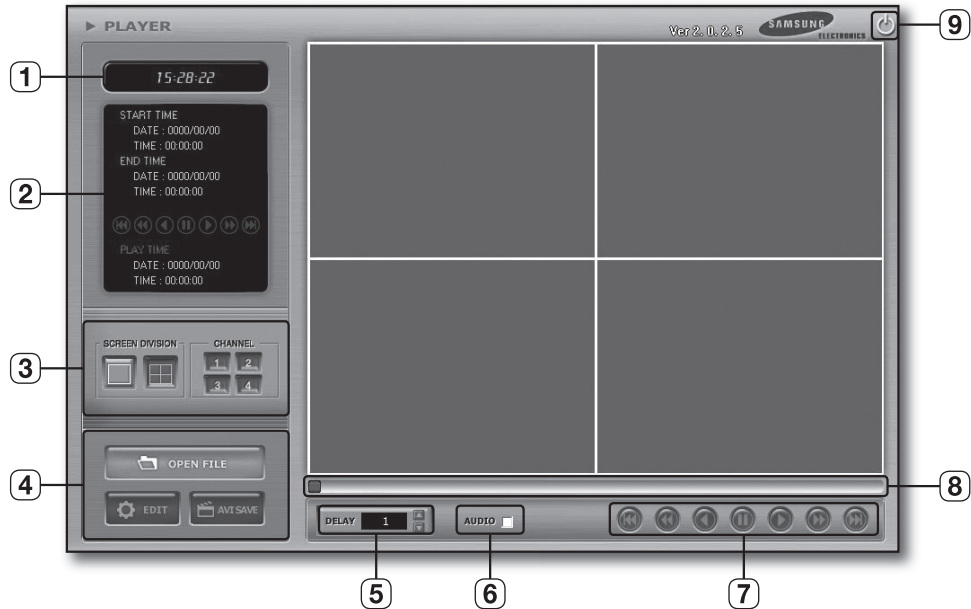
Item		Description
1	**System Time**	Displays the system time.
2	**Status Pane**	Displays the backup start and end date/time with the operation status.
3	**SCREEN DIVISION**	You can select full screen or 4-split mode.
	CHANNEL	The selected channel will be displayed in Single screen mode.
4	**OPEN FILE**	Select a backup file.(AM4 format)
	EDIT	In this mode, you can save a recording image and make a printout. This mode is available only if a single channel is selected.
	AVI SAVE	Saves a video in the format of AVI. This feature is available only if a single channel is selected.
5	**DELAY**	Adjust the player interval. The higher the value is, the slower the video plays.
6	**AUDIO**	Set the audio sound to On/Off.
7	**Operation Buttons**	◄◄ : Moves the slide bar to the initial point and displays the start image. ◄◄ : Fast plays backward. ◄ : Plays backward. ❚❚ : Stops playing temporarily. ► : Plays forward. ►► : Fast plays forward. ►►❙ : Moves the slide bar to the end point and displays the end image.
8	**Slide Bar**	You can search for a desired image using the slide bar.
9	**Power**	Exits the backup player.

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web viewer

Image EDIT

1. Click <**OPEN**> and select a backup file to play.

2. Switch to Single Screen mode and click <**EDIT**>.
   The "**EDIT TOOL**" window appears.

3. When done, click <**EDIT**>.
   Switch to backup play mode.
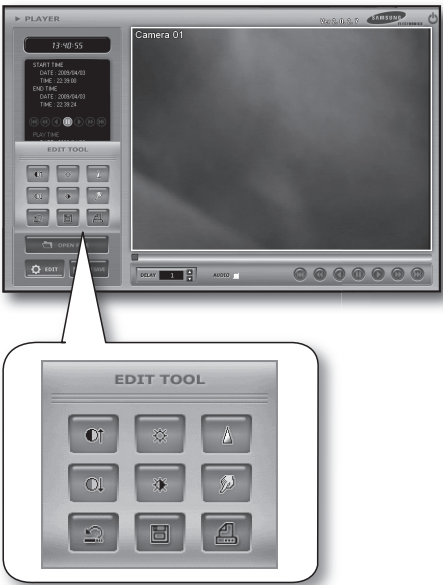
EDIT TOOL		
Contrast		Adjust a bright area to brighter, and a dark area to darker.
		Adjust the contrast to a low level to reduce the brightness.
Brightness		Adjust the image to a bright level.
		Adjust the image to a dark level.
Sharpness		Sharpens the borders.
Blur		Makes the image look soft.
Return		Restores your video settings to the original.
Capture		Saves the image in the JPEG format. The image will be saved in the installation directory of the backup player.
Print		Prints out the image.

AVI SAVE

1. Click <**AVI SAVE**>.
   The "**OPTION**" window appears.

2. Set the options to your preference.
   - CHANNEL: Select a channel to save.
   - FRAMERATE: Set the frame rate for a video to save.
   - SIZE: Set the size of a video to save. The size will be set automatically according to the video.

3. Click <**START**>.
   Starts saving the video from the current point.

4. To stop saving, click <**STOP**>.
   Exits saving the video.
   When done, the '**C:\WEB_BACKUP**' folder will open.

   ✎ ▪ The width and height of a captured or AVI video comply with 'frame rate' and 'frame height' of the recording video; however, it will be printed out in 640X480 regardless of the frame size (width and height).
   Audio signal will not be saved with AVI SAVE.

REMOTE VIEWER

1. Click <**REMOTE VIEWER**>.
   The "**REMOTE VIEWER**" window appears.

2. Enter the <**PW**> and click <**CONNECT**>.
   When it is connected successfully, the Live screen will be displayed.
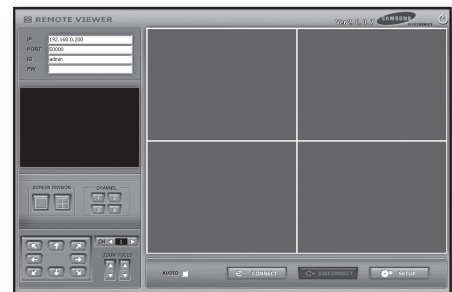
web viewer

Remote Viewer at a Glance
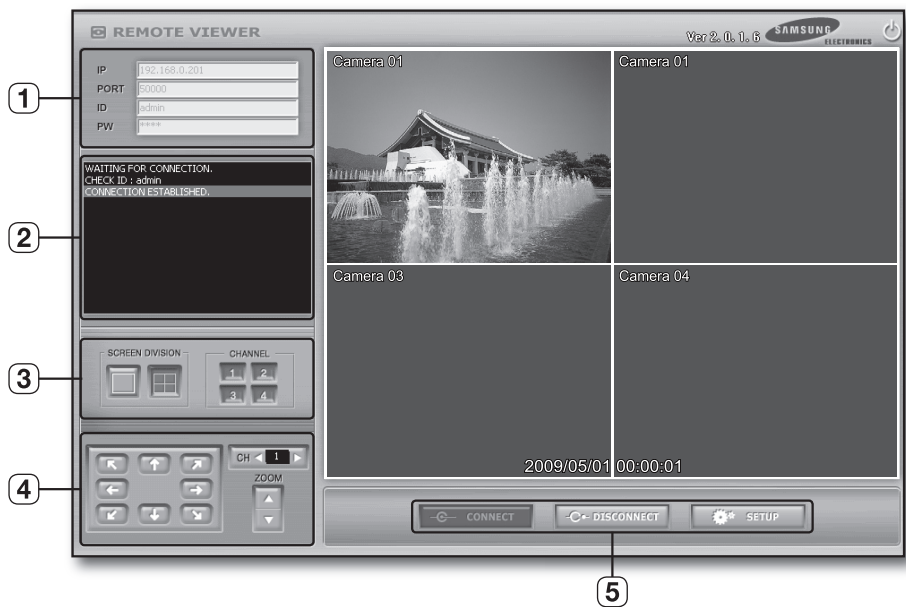
	Item	Description
1	**DVR Connection Information**	Provide information required to connect to the network.
2	**System Information**	Displays information about DVR connection and system operation.
3	**SCREEN DIVISION**	You can select Single screen or 4-split mode.
	CHANNEL	The selected channel will be displayed in one of the 4 split screens.
4	**PTZ Control**	You can control a remote PTZ camera that is connected to the DVR. ▪ To control a remote PTZ camera, ensure that you have completed PTZ settings in the DVR.
5	**Network Connection**	You can configure settings for network connection and operation.

SETUP

Click <**SETUP**> to display the Network Setup window.
You must adjust the transfer settings according to the network environment.

- Quality: You can set the recording quality.
  - For more information, refer to "**RECORD > RECORD SETUP**". (page 28)

- Frame Rate: Set the frame rate per second for a video.
  - For more information, refer to "**RECORD > RECORD SETUP**". (page 28)

- Bandwidth: You must set the upload speed according to the network environment of the current DVR.

- Read: Loads the settings of the connected DVR into the Web Viewer.

- Write: Saves the Web Viewer settings in the DVR.
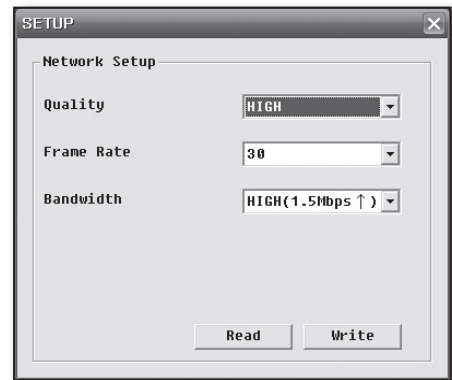
> ✎ ▪ If the network setup of Remote Viewer is changed, the record setup will be changed accordingly.
> As Remote Viewer uses a single codec with no separate codec for the network service, a change to the frame rate and quality via the network will change the recording frame rate and quality accordingly.

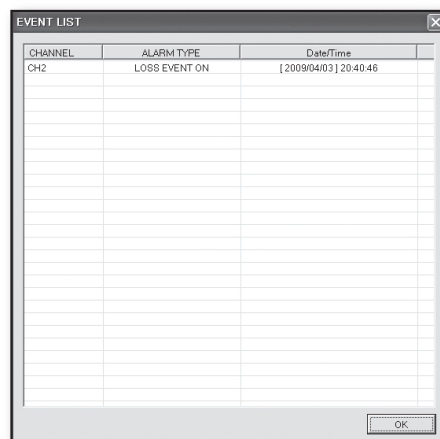> ❗ ▪ Only the "**admin**" user account can access the "**SETUP**" menu.

● WEB VIEWER

web viewer

SEARCH

1. Click <**SEARCH**>.
   The "**SEARCH**" window appears.

2. Enter the <**PW**> and click <**CONNECT**>.
   Ensure that you have provided <**IP**>, <**PORT**> and <**ID**>.

3. Specify the start time in the <**SEARCH TIME**> bar.
   ▪ If you do not specify the start time, the viewer starts playing from the last run point.

4. Click Play (▶).
   ▪ For more information about the play bar, refer to "**Player at a Glance > Operation Buttons**". (Page 57)
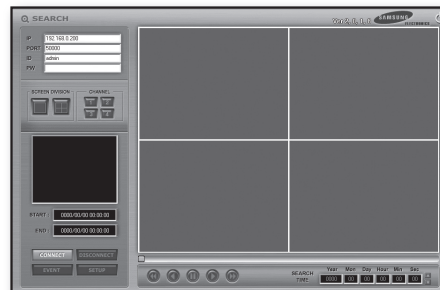
EVENT

You can check information about DVR events such as alarm detection, motion detection and video loss.
Click <**EVENT**> in the lower left corner.
The "**EVENT LIST**" window appears.

SETUP

You can set the network speed.
Click <**SETUP**> in the lower left corner.
The "**SETUP**" dialog appears.

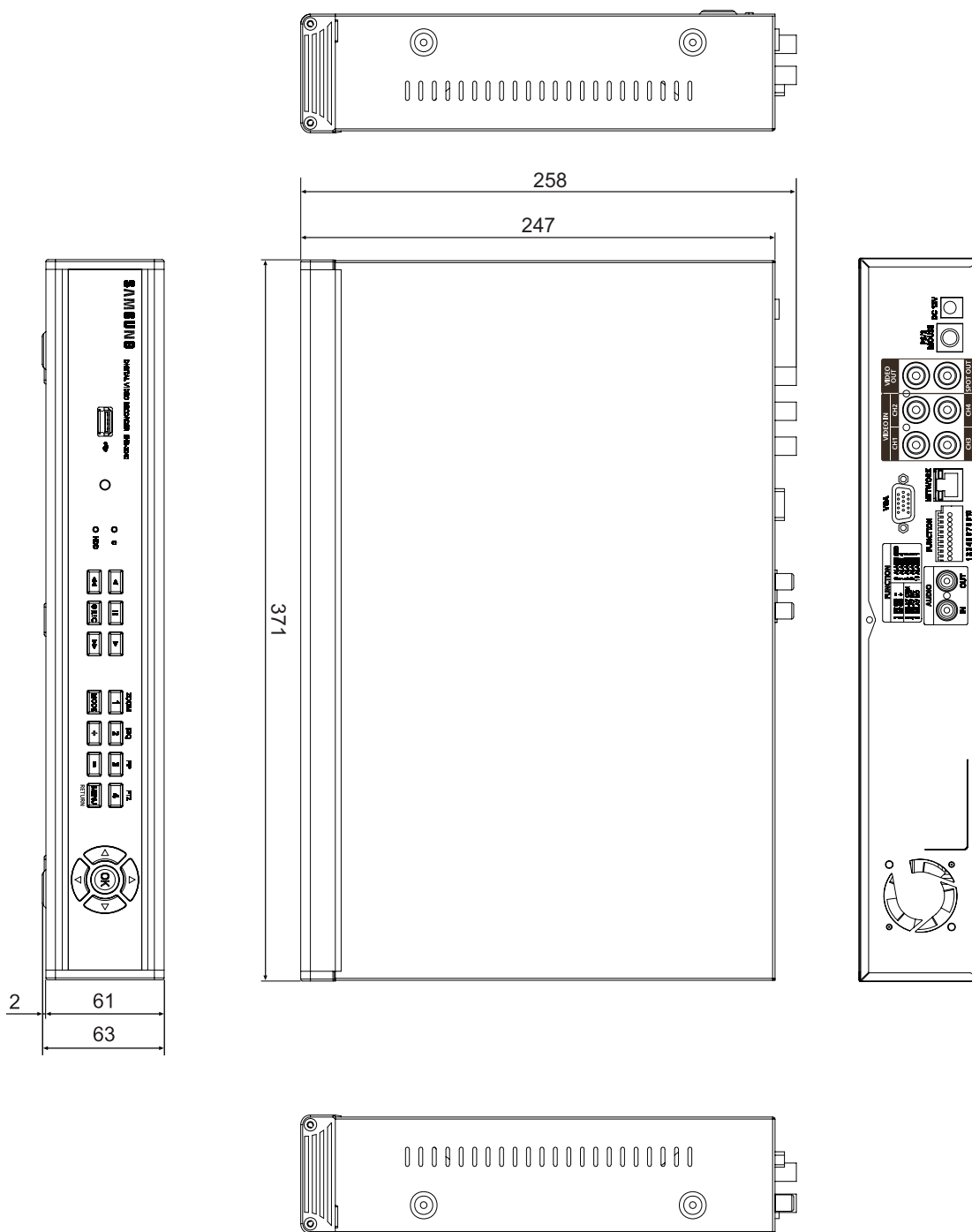⚠ ▪ Only the "**admin**" user account can access the "**SETUP**" menu.

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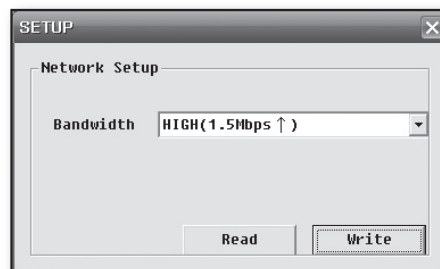
appendix

PRODUCT SPECIFICATION

Item		Details
System	Language	Multi language Support English, German, French, Spanish, Italian, Russian, Portuguese, Japanese etc.
	Event Log	•
	OS	-
	Resolution	CIF (NTSC : 352x240 / PAL : 352x288)
	Live/Record Rate	NTSC 120/120 ips (PAL 100/100 ips)
	Codec	H.264 (Hardware Codec)
	HDD	320G(Basic)/500G/750G(SATA)
	Built In HDD Capacity	1 Slot
	Daylight Saving	•
	RS-485	•
	Video	4
	Audio In/Out	1/1
	Mouse I/F	• (Only PS2)
Play back	Speed	Fast, Fastest
Recording	Schedule(Time/Motion/Alarm)	•
Event Rec	Alarm	•
	Alarm Input	4
	Alarm Output	1 (Relay Out. Selectable NC/NO)
	Motion/Video loss	•
Search	Time/Date	•
	Percentage of HDD/Event	•
Back up	USB	1 (Relay Out. Selectable NC/NO)
	Format	*AM4 (Include Player) *AVI format Does Not support

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appendix

Item		Details
Network	Simultaneous Network Connection	4
	Netework Spec	Cable Modem, Lan
	Network (TCP)	•
	Web viewer / BACK UP	•
	Web viewer port Set up	• (Remote Setup)
	Web viewer P/T/Z Control	•
	DDNS	•
	Firmware update	• (USB)
Camera	P/T/Z Device	•
Monitor	Dual Output (VGA/BNC)	•
Video Out	Composite/Spot	• (BNC 1EA)
	VGA	• 800x600 (60Hz) 1024x768 (60Hz) 1280x1024 (60Hz)
Dimension		371(W) x 62(H) x 247(D) mm
WebViewer	PC Requirements	CPU : Pentium 4 / 3.0Ghz or higher RAM : 1G
	Operating Systems	Windows XP (Pro) Windows 2000 (Pro) Windows Vista (Home Basic/Premium)
Operating Temperature		0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature		-20°C ~ +60°C (-4°F ~ +140°F)
Operating Humidity		20% to 85% RH
Storage Humidity		20% to 85% RH
Dimension (W x H x D)		371 x 62 x 247 mm (14.61 x 2.44 x 9.72 inch)
Weight		2.44Kg

APPEARANCE & DIMENSION

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247

371

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appendix

TROUBLESHOOTING (FAQ)

Problems and Symptoms	Measure
Power does not turn on.	• Only use a power adapter specified in the user manual. • Fully insert the adaptor's power jack into the DVR's power receptacle. • It sounds a beep when the power is properly supplied, check the output and LED indicator. • If the problem persists after these actions, replace the main board as this is an error from the power system.
LED indicator does not operate.	• Open the DVR case and properly connect the key cable connector.
Fan does not operate.	• Check the power is turned on. • Connect the fan's power cable properly to the DVR's 12V power connector. • Remove any foreign substances on or around the cable. • If the problem persists after these actions, the fan or DVR is not in normal operation. Replace the fan.
DVR produces noise.	• Remove any foreign substances in the fan unit and operate again. • If the fan produces noise itself, its internal bearings are broken; replace the fan. • If the problem persists after these actions, check the HDD and replace it if necessary.
No output displayed on the LCD or no output on RCA Video out.	• Check the power is turned on. • Check the camera. • Turn on the DVR's monitor On/Off switch. • Connect to RCA Video Out properly. • Check whether the connecting cable is cut inside. Check the cable by connecting camera and monitor directly. Replace the cable if required.
HDD is not recognized properly.	• Check the power is turned on. • Check the power and data cables are connected to the HDD properly and restart. • If the problem persists after these actions, replace the HDD. • Replace the main board if it has a problem with the power system or the bus line.
It does not record.	• Check the HDD. • Check the cable, camera and incoming BNC cable for connection. • Set the HDD OVERWRITE option to <**ENABLE**> and check its storing operation again. • Set the recording type in the Schedule setup and try again. (ALARM and MOTION modes only records on an event.)
It does not play back.	• Initialize the DVR using FACTORY DEFAULT, and delete files in HDD using CLEAR PROCESSING, and then check playback after letting the DVR record for a while. • Try several times of HDD recording and deleting, and replace the HDD if the problem continues. • Check the HDD power and data cables.

Problems and Symptoms	Measure
It does not backup.	• Fully insert the USB connector and check its connection. • Check the USB memory works fine with a PC. • Check whether it is recognized normally and shows remaining space properly. • SHR-3040 supports USB1.1 and its writing speed may be slow. Consider its writing speed when you schedule the backup. • Check whether actual data has been recorded between the start and end time.
Alarm and Relay do not operate normally.	• Check whether the ALARM is set to Disabled. ALARM is not recognized if it is set to Disabled. • Check whether the cable connections are proper and operate again. • Check whether the external devices are normal, and replace if required.
PTZ does not operate normally.	• Check whether the PTZ controls are supported by the device. Check if the power satisfies specified power requirements. • Connect RS-485 (+) and (-) cables to RS-485 port properly. • Set proper protocol, ID and baud rate both on the Camera and DVR. • Check connecting cables and replace if required.
Mouse does not operate.	• Check whether the mouse is properly connected to the DVR, and operate again. • Replace the mouse with a new PS/2 type mouse, and check its operation. • Using PS/2 gender for USB mouse may not work properly with the DVR. (Mouse Characteristics) • If disconnected while in operation, mouse is not recognized properly. (Same as in PC environment – case of PS/2 type mouse) • Check the mouse operation on a mouse pad of less reflective. • If the mouse's sensitivity is too low, cursor movement may not be natural.
No AUDIO output signal.	• Check audio output after setting the AUDIO output to the correct channel in AUDIO SETUP. • Check the camera by replacing it with another one; replace if required. • Connect to RCA Video Out properly. • Check whether the Audio I/O volume is set too low; adjust the volume at your preference. • Check whether the speakers are powered properly before turning on.
Remote control does not operate.	• Avoid other radio devices since the remote control may have frequency interference. • Check whether there is single remote control. • Replace the batteries of remote control and try again. • Gently wipe the remote control's forehead and DVR's remote reception using a dry cloth and check operation. • If the remote control works, then the DVR's remote reception part is out of order. If the remote control does not work, replace the remote control.
No TCP/IP connection is established.	• Check and properly connect the network cable between the PC and DVR. (Check network cable separately.) • Use a cross-cable for direct connection to a PC, and use a direct cable for HUB / Router connection. • Check network operation, cable condition, and assembly of the DVR's network board. • Check whether the network is configured to allow accesses. • Check IP address, port number and password are properly entered. • Enter the DVR's password when accessing. • Check whether the cables are okay using a PC and replace it if required.

● APPENDIX

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SAMSUNG

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

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